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Test Suite Overview

Test Suite Structure

Suite Name : GSM_L3_MS_v4320
Standards Ref : ETS 300 557
PICS Ref :
PIXIT Ref :
Test Method(s) : Distributed Single Layer Test Method
Comments : Version 4.32.0

Test Group Reference	Selection Ref	Test Group Objective	Page Nr
General/	SelExpr_0000	To verify the supported and non−supported services.	1023
InitialTest/	SelExpr_0100	To verify random access procedure, IMSI attatch and detach procedure, sequenced MM/CC message transfer and establishment causes.	1043
IdleMode/	SelExpr_0200	To verify MS functions in idle mode	1074
BiBo/	SelExpr_0300	To verify the MS handling unknown, unforeseen and erroneous protocol data, and parallel transactions	1078
RR/	SelExpr_0400	To verify the elementary procedures for radio resource management	1123
MM/	SelExpr_0500	To verify the elementary procedures of mobility management.	1329
CC/	SelExpr_0600	To verify the circuit switched call cntrol functions.	1408
StructureProc/	SelExpr_0700	To verify the structured procedures.	1525
EGSMSignalling/	SelExpr_1000	To verify the different procedures which may be impacted when some channel uses E− GSM frequencies.	1552
SS/	SelExpr_0800	To verify the functions of supplementary services.	1584
MSFeatures/	SelExpr_1100	To verify the presence and appropriate functioning of mandatory and optional MS features.	1700

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Test Group Reference	**Selection Ref**	**Test Group Objective**	**Page Nr**
SM/	SelExpr_0900	To verify the functions of short message service.	1702
Detailed Comments :			

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General/	TC_11_1_1	SelExpr_0002	Verification of support and non−support of services (MT).	1023
General/	TC_11_1_2	SelExpr_0007	Verification of support and non−support of services (MO).	1026
General/	TC_11_2	SelExpr_0002	Verification of support of the single numbering scheme.	1034
General/	TC_11_3	SelExpr_0003	Verification of non−support of services. (Advice of Charge Charging, AOCC)	1035
General/	TC_11_4	SelExpr_0004	Verification of non−support of services. (Call Hold)	1039
General/	TC_11_5	SelExpr_0005	Verification of non−support of services. (MultiParty)	1040
General/	TC_11_6	SelExpr_0006	Verification of non−support of feature. (Fixed dialling number)	1042
InitialTest/	TC_26_2_1_1	SelExpr_0101	Initial Layer 3 tests − Channel request / initial time. 11.10 Ref. ver.4.10; CR	1043
InitialTest/	TC_26_2_1_2	SelExpr_0101	Initial Layer 3 tests − Channel request / repetition time. 11.10 Ref. ver.4.10; CR: C46	1045
InitialTest/	TC_26_2_1_3	SelExpr_0101	Initial Layer 3 tests − Channel request / random reference. 11.10 Ref. ver.4.10; CR	1048
InitialTest/	TC_26_2_2	SelExpr_0101	IMSI detach and IMSI attach. 11.10 Ref. ver 4.10.0; CR. 0295−6r1. CR.C62r1.	1049
InitialTest/	TC_26_2_3	SelExpr_0101	Sequenced MM / CM message transfer.	1052
InitialTest/	TC_26_2_4_1	SelExpr_0102	Establishment Cause /pr1 (TCH)	1054
InitialTest/	TC_26_2_4_2	SelExpr_0103	Establishment Cause /pr2 (/H)	1056
InitialTest/	TC_26_2_4_3	SelExpr_0107	Establishment Cause /pr3 (TCH/FS)	1058
InitialTest/	TC_26_2_4_4	SelExpr_0104	Establishment Cause /pr4 (data)	1060
InitialTest/	TC_26_2_4_5	SelExpr_0101	Establishment Cause /pr5	1063
InitialTest/	TC_26_2_4_6	SelExpr_0101	Establishment Cause /pr6	1066
InitialTest/	TC_26_2_4_7	SelExpr_0105	Establishment Cause /pr7 (non−call−SS)	1070
InitialTest/	TC_26_2_4_8	SelExpr_0106	Establishment Cause /pr8 (SMS/PP MO)	1072

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IdleMode/	TC_26_3_3	SelExpr_0201	MS will send only if BSS is "on air".	1075
IdleMode/	TC_26_3_4	SelExpr_0201	Manual mode of PLMN selection 11.10 Ref. ver. 4.10.0; CR. 11.10−661. C64	1076
BiBo/	TC_26_5_1	SelExpr_0302	Handling of unknown protocol discriminator	1078
BiBo/	TC_26_5_2_1_1	SelExpr_0302	Handling of unknown TI and skip indicator / RR	1079
BiBo/	TC_26_5_2_1_2	SelExpr_0302	TI Skip indicator / RR / RR Connection established	1080
BiBo/	TC_26_5_2_2	SelExpr_0302	TI and skip indicator / MM	1083
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BiBo/	TC_26_5_3_1	SelExpr_0301	Undefined or unexpected Message type / undefined message type / CC	1087
BiBo/	TC_26_5_3_2	SelExpr_0301	Undefined or unexpected message type / undefined message type / MM	1088
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BiBo/	TC_26_5_5_1_1_1	SelExpr_0302	Non−semantical mandatory IE errors / RR / missing mandatory IE error / special case	1094
BiBo/	TC_26_5_5_1_1_2	SelExpr_0302	Non−semantical mandatory IE errors / RR / missing mandatory IE error / general case	1095
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BiBo/	TC_26_5_5_2_1	SelExpr_0301	Non−semantical mandatory IE errors / MM / syntactically incorrect mandatory IE	1098
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BiBo/	TC_26_5_6_3	SelExpr_0302	Unknown IE in the non−imperative message part, comprehension not required / RR / unknown in the protocol.	1114
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RR/	TC_26_6_2_2	SelExpr_0401	Paging / extended	1145
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RR/	TC_26_6_2_3_2	SelExpr_0401	Paging / reorganisation / procedure 2	1152
RR/	TC_26_6_2_4	SelExpr_0401	Paging / same as before	1154
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RR/	TC_26_6_5_2_1	SelExpr_0410	Retransmit L3−msg during non synchr. HO from SDCCH/4_nonFH to TCH/F_FH.	1191
RR/	TC_26_6_5_2_2	SelExpr_0408	Retransmit L3−msg during non synchr. HO from SDCCH/4_nonFH to TCH/H_FH.	1194
RR/	TC_26_6_5_2_3	SelExpr_0410	Retransmit L3−msg during non synchr. HO from SDCCH/4_nonFH to SDCCH/8_FH.	1197

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RR/	TC_26_6_5_2_6	SelExpr_0408	Retransmit L3−msg during non synchr. HO from TCH/H_FH in cell A to TCH/F_FH in cellB.	1206
RR/	TC_26_6_5_2_7	SelExpr_0410	Retransmit L3−msg during non synchr. HO from TCH/F_FH in cell A to TCH/F_FH in cellB.	1209
RR/	TC_26_6_5_2_8	SelExpr_0410	Retransmit L3−msg during non synchr. HO from TCH/SDCCH8_FH in cell A to TCH/F_NonFH in cellB.	1212
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RR/	TC_26_6_5_2_10	SelExpr_0408	Retransmit L3−msg during non synchr. HO from TCH/SDCCH8_NoFH in cell A to TCH/H_FH in cellB.	1217
RR/	TC_26_6_5_3_1	SelExpr_0402	synchronised HO from TCH/F_FH in cellA to TCH/F_nonFH in cellB.	1220
RR/	TC_26_6_5_3_2	SelExpr_0408	synchronised HO from TCH/H_FH in cellA to TCH/H_nonFH in cellB.	1223
RR/	TC_26_6_5_4_1	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8/FH −> SDCCH/8_FH)	1226
RR/	TC_26_6_5_4_2	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8/FH −> SDCCH/4_noFH)	1230
RR/	TC_26_6_5_4_3	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: TCH/F_NoFH −> TCH/F_FH)	1233

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RR/	TC_26_6_5_5_1	SelExpr_0402	Handover / successful / active call / pre−synchronised / Timing Advance IE not included	1239
RR/	TC_26_6_5_5_2	SelExpr_0410	Handover / successful / call being estab. / pre−synch. /Tim. Advance IE is included / reporting of obsrvd. time diff requested	1242
RR/	TC_26_6_5_6	SelExpr_0409	Handover / successful / active call / pseudo −synchronised	1246
RR/	TC_26_6_5_7	SelExpr_0402	Handover / successful / active call / non−synchronised / reporting of obsrvd. Time diff requested	1249
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RR/	TC_26_6_5_9	SelExpr_0402	Handover / L1−failure 11.10 Ref. ver.4.10.0; CR 11.10−720	1255
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RR/	TC_26_6_8_1	SelExpr_0405	Ciphering mode / start ciphering	1269
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RR/	TC_26_6_8_3	SelExpr_0405	Ciphering mode / old cipher key	1273
RR/	TC_26_6_8_4	SelExpr_0401	Ciphering mode / Change of mode, algorithm and key	1275
RR/	TC_26_6_8_5	SelExpr_0401	Ciphering mode / IMEI request 11.10 REF. VER.4.10.0; CR. C92	1284
RR/	TC_26_6_11_1	SelExpr_0406	Test of Classmark change	1285
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RR/	TC_26_6_12_1	SelExpr_0401	Channel release / SDCCH	1290

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RR/	TC_26_6_12_4	SelExpr_0403	Channel release / TCH−F − no L2 ACK	1296
RR/	TC_26_6_13_1	SelExpr_0401	Dedicated assignment with starting time / successful case / time not elapsed	1298
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RR/	TC_26_6_13_3	SelExpr_0401	Dedicated assignment with starting time and frequency redefinition/ failure case / time not elapsed	1303
RR/	TC_26_6_13_4	SelExpr_0401	Dedicated assignment with starting time and frequency redefinition/ failure case / time elapsed	1306
RR/	TC_26_6_13_5	SelExpr_0401	Handover with starting time / successful case / time not elapsed	1309
RR/	TC_26_6_13_6	SelExpr_0401	Handover with starting time / successful case / time elapsed	1313
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MM/	TC_26_7_3_2	SelExpr_0501	Handling of IMSI shorter than the maximum length.	1335
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MM/	TC_26_7_4_4	SelExpr_0502	To verify that the MS aborts the RR−connection at the expiry of timer T3240.	1378
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management/	CombinedBCCH_H	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H.	1777
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management/	NonCombinedBCCH_A_3	To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A.	1778
management/	NonCombinedBCCH_A_4	To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A.	1779
management/	NonCombinedBCCH_B	To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing.	1779

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
management/	NonCombinedBCCH_B_ho	To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing.	1780
management/	FullRateCh_A_1	To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.	1780
management/	FullRateCh_A_1_nociph	To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.	1781
management/	FullRateCh_A_2	To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1.	1781
management/	FullRateCh_A_2_nociph	To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1.	1782
management/	FullRateCh_B_1	To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.	1782
management/	FullRateCh_B_1_pwr	To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.	1783
management/	FullRateCh_B_1_nociph	To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.	1783
management/	FullRateCh_B_1_nociph_pwr	To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.	1784
management/	HalfRateCh_A_1	To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.	1784
management/	HalfRateCh_A_1_nociph	To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.	1785
management/	HalfRateCh_A_2	To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1.	1785
management/	HalfRateCh_A_2_nociph	To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1.	1786
management/	HalfRateCh_B_1	To set one physical channel used as TCHH_ACCH's for instance 1 of cell B	1786
management/	HalfRateCh_B_1_nociph	To set one physical channel used as TCHH_ACCH's for instance 1 of cell B	1787
management/	SDCCH8_A_1	To set one physical channel used as SDCCH8 channel for instance 1 of cell A.	1787
management/	SDCCH8_A_1_nociph	To set one physical channel used as SDCCH8 channel for instance 1 of cell A.	1788
management/	SDCCH8_A_2_nociph	To set one physical channel used as hopping SDCCH8 channel for instance 2 of cell A, for TC_26_6_13_1.	1789

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
management/	SDCCH8_B_1	To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B .	1789
management/	SDCCH8_B_1_nociph	To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B For TC_26_6_13_5.	1790
Miscellaneous/	Adjust_gsmanddcs_powerlvl		1790
Miscellaneous/	AOC_CHK_FAC	Check the receive of FACILITY within one second at AOCC	1791
Miscellaneous/	AssCh_complete		1792
Miscellaneous/	AssCh_failure		1792
Miscellaneous/	AssCmdGen		1793
Miscellaneous/	AssCmdGen_fh		1794
Miscellaneous/	Authentication	To execute the authentication procedure.	1794
Miscellaneous/	CalcFirstFNofBlock		1795
Miscellaneous/	CallProcGen	To generate a CALL PROCEEDING message .	1797
Miscellaneous/	CCAssignTCH		1798
Miscellaneous/	CCCH_group_Paging_group		1799
Miscellaneous/	CCEstablishMO_SDCCH4		1800
Miscellaneous/	CCEstablishMO_TCH		1800
Miscellaneous/	CCEstablishMT_SDCCH4		1801
Miscellaneous/	CCEstablishMT_TCH		1801
Miscellaneous/	CC_Est_MT_Call		1802
Miscellaneous/	CC_EstMsTermCall		1803
Miscellaneous/	CCModifyTCH		1804
Miscellaneous/	CCPage		1804
Miscellaneous/	CCstatuschk_01	To check whether the MS under test is in the CC state ‘st‘.	1805
Miscellaneous/	CCstatuschk_02	To check whether the MS under test is in the CC state ‘st‘.	1805
Miscellaneous/	CCstatuschk_03	To check whether the MS under test is in the CC state ‘st‘.	1806
Miscellaneous/	CCstatuschk_05	To check whether the MS under test is in the CC state ‘st‘.	1806
Miscellaneous/	Check_Cells_Present	To check that the received handover access bursts’ power levels are as expected	1807
Miscellaneous/	Check_hoaccPwr	To check that the received handover access bursts’ power levels are as expected	1808
Miscellaneous/	Check_hoaccTiming	To check that the received handover access bursts’ timing advance is as expected	1809
Miscellaneous/	Check_Time		1810
Miscellaneous/	Check_Result		1810
Miscellaneous/	CheckFNTolerance		1811
Miscellaneous/	CheckMTDif	To check that the mobile time difference is within +/−2 half bits of the expected value	1812

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Miscellaneous/	CheckTIsInStateU0		1812
Miscellaneous/	ChkMsrmntRpt		1813
Miscellaneous/	Ciphering_off	To switch off the ciphering. In presteps the ciphering shall be switched on.	1813
Miscellaneous/	Ciphering_on	To switch on the ciphering.	1814
Miscellaneous/	CMsrvcRq	To request a CM service	1814
Miscellaneous/	DTMFSignalling	To handle DTMF signalling initiated by the MS, which sends 'n' tones to the network.	1815
Miscellaneous/	EstablishFacMO		1816
Miscellaneous/	FnArith	To calcurate the difference of two frame numbers 'fn1' and 'fn'. The test step uses TCV_Cnt1, TCV_Cnt2, TCV_K and TCV_Time.	1817
Miscellaneous/	FnCalc	Convert t1, t2, t3 obtained from passed FN type into easier to manipulate INTEGER type.	1817
Miscellaneous/	GetSubchannel		1818
Miscellaneous/	IdentityRequest	To execute the identity procedure depending on the given identity type. Used var's: TCV_ch, TCV_tmsi	1818
Miscellaneous/	ImsiAttach		1819
Miscellaneous/	ImsiAttachIni		1820
Miscellaneous/	ImsiAttachNoReaction		1821
Miscellaneous/	ImsiDetach		1822
Miscellaneous/	ImsiDetachNoReaction		1823
Miscellaneous/	InCallModi1		1824
Miscellaneous/	MM_LUP	To execute the Location Update Procedure. The parameter lup_mi is the actual mi of MS before MM_LUP.	1825
Miscellaneous/	MM_LUP2	To execute the Location Update Procedure. The parameter lup_mi is the actual mi of MS before MM_LUP.	1825
Miscellaneous/	MM_LUP3	To execute the normal Location Update Procedure. No check of parameter.	1825
Miscellaneous/	MM_LupAndStop	To execute the initialisation of the Location Update Procedure.	1826
Miscellaneous/	MM_LupAuthRpt	To initialise Location Update and repeated Authentication procedures till T3210 times out.	1826
Miscellaneous/	MM_LUPauth1	To execute the Location Update Procedure with authentication. Check of the parameter LAI, MSClassMark and Mobile Identity is not required and are not checked.	1827

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Miscellaneous/	MM_LUPauth2	To execute the Location Update Procedure with authentication. Checking of the parameter LAI, MSClassMark and Mobile Identity is required.	1827
Miscellaneous/	MM_LUP_imsi	To execute the Location Update Procedure only for IMSI. The parameter lup_mi is the actual mi of MS before MM_LUP. It is called by TC_26_7_4_3_1.	1828
Miscellaneous/	MM_LupInit	To execute the initialisation of the Location Update Procedure.	1829
Miscellaneous/	MM_LupInit2	To execute the initialisation of theLocation Update Procedure.	1829
Miscellaneous/	MM_LupInit3	To execute the initialisation of the Location Update Procedure.	1830
Miscellaneous/	MM_LupInit4	To execute the initialisation of theLocation Update Procedure.	1831
Miscellaneous/	MM_LupInit5	To execute the initialisation of the Location Update Procedure.	1831
Miscellaneous/	MM_LupInit6	To execute the initialisation of the Location Update Procedure.	1832
Miscellaneous/	MM_LUP_tmsirealloc	To execute the Location Update Procedure. The parameter expectedlup_mi is the actual mi of MS before MM_LUP. The expectedlup_mi is not used in this teststep, it is not required to check it. The test step is called in TC_26_7_1.	1832
Miscellaneous/	MM_LUPper	To execute the periodic Location Update Procedure.	1833
Miscellaneous/	MM_LUPper2	To execute the periodic Location Update Procedure.	1833
Miscellaneous/	MM_LUPperauth	To execute the periodic Location Update Procedure.	1834
Miscellaneous/	MM_LUPperrej	To execute the periodic Location Update Procedure.	1834
Miscellaneous/	MM_LUPperrej2	To execute the Location Update Procedure, which shall be rejected.	1835
Miscellaneous/	MM_LUPperrej3	To execute the Location Updating Procedure, which shall be stopped with channel release.	1835
Miscellaneous/	MM_LupRej	To execute the Location Update Procedure, which shall be rejected.	1835
Miscellaneous/	MM_LupRej2	To execute the Location Update Procedure, which shall be rejected.	1836
Miscellaneous/	MM_PwrOrSimOff		1836
Miscellaneous/	MM_PwrOrSimOn		1837
Miscellaneous/	MM_check_ecall1	To check, if MS execute the emergency call.	1838
Miscellaneous/	MM_check_ecall2	To check, if MS execute the emergency call with IMSI	1839
Miscellaneous/	MM_no_cmservices	To check, if MS doesn't execute a MO CM connection procedure.	1840

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Miscellaneous/	MM_no_paging	To check, if MS doesn't initiate a RR connection. The duration of the checking is set in given par.	1840
Miscellaneous/	NoReaction	To check whether MS doesn't initiate any RR connections.	1840
Miscellaneous/	RR_hocompE	To finish the HO−procedure. Timing advance = 20 bits period	1841
Miscellaneous/	RR_hocomp1	To finish the HO−procedure in non−synchronized HO cases.	1842
Miscellaneous/	RR_hocomp3	To finish the HO−procedure in synchronized HO cases.	1843
Miscellaneous/	RRmtcallprepare	To establish a full rate call with non hopping in cell A for GSM900 and DCS1800. IUT should be in idle updated state.	1843
Miscellaneous/	RcvSetupOrEsetup		1844
Miscellaneous/	SendSeqNo_chk	check sending sequence number.	1844
Miscellaneous/	SelectPagingCh		1845
Miscellaneous/	Set_CellChDescr	To set the cell channel description	1846
Miscellaneous/	SetupRcvMo2		1846
Miscellaneous/	Switchcell		1847
Miscellaneous/	SvcSupportedChk	To check wether the Basic Service svc is supported against PICS answers.	1848
Miscellaneous/	Timadv_Pwrlvl_chk	To check the power level and the timing advance in L1 head.	1849
Miscellaneous/	TmsiReallocation	To execute the TMSI reallocation procedure. Used var's: TCV_ch	1850
Miscellaneous/	Varinit_tch	To assign an initial arfcn value to TCV_tch_arfcn	1850
Miscellaneous/	Varinit_fix		1851
Miscellaneous/	Wait		1851
Miscellaneous/	WaitForInService	To wait until the MS enters the Idle and updated state.	1852
Miscellaneous/	ChgLAC_A	To change the LAC of cell A.	1852
Miscellaneous/	ChgLAC_B	To change the LAC of cell B.	1853
Miscellaneous/	ChgLAI_C	To change the LAI of cell C to HPLMN.	1854
Miscellaneous/	SysInfoSending_cbms	To send system information messages for the CBMS tests.	1855
Miscellaneous/	SysInfoSending_fh	To send system information messages for the L3 tests. The following parameters specified by input parameters.	1857
Miscellaneous/	SysInfoSending_nfh	To send system information messages with default parameters defined for L3 tests for which no other special parameters indicated.	1859
Miscellaneous/	SysInfoSending_nfhCb	To send system information messages with default parameters defined for L3 tests except that the cell is barred.	1861

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Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Miscellaneous/	SysInfoSending_e	Sending of Systeminformation for cell A in EGSM test case TC_26_10_2_2.	1863
Miscellaneous/	SysInfo_SacchSending	To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrised 'ch' channel.	1864
Miscellaneous/	SysInfo_5bisSending	To send SYSTEM INFORMATION 5bis message defined by parameters 'sysinfo5bis_pdu' in the parametrised 'ch' channel.	1864
Miscellaneous/	SetNECI	To set the NECI =1.	1865
Miscellaneous/	SetATT	To set the ATT flag to "MS's in the cell should apply IMSI attach and detach procedure"	1866
OperatorOP/	InitCall	To initiate a call of the basic service 'srv'.	1867
OperatorOP/	InitCM	To initiate a CM service request.	1867
OperatorOP/	InitNonCallSupp	To attempt a non call related supplementary service at the MS under test.	1867
OperatorOP/	AtmpShortMsg	To attempt an MO short message service transaction at the MS under test.	1868
OperatorOP/	CheckUssdStringDisplayed	To check whether the correct USSD String is displayed on the MS	1868
OperatorOP/	PLMNsCHK	To check whether the MS presents a list of available PLMNs.	1868
OperatorOP/	RFtransCHK	To check whether the MS transmits any radio signal.	1869
Postambles/	PostLinkRelEnd	To release the RR connection and bring the MS back to Idle state. This teststep decides the final verdict and therefor it shall be used only at the end of testcases.	1869
Postambles/	PostMainLinkRel	To release the main signalling link 'ch', and bring the MS back to Idle state.	1869
Postambles/	ChanRel	To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.	1870
Postambles/	ChanRel_02	To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.	1870
Postambles/	ChanRel_P	To release the RR connection on the channel TCV_chmaindcch and bring the MS back to Idle state. This teststep decides the verdict (P).	1870
Postambles/	ChanRel_end	To release the RR connection and bring the MS back to Idle state. This teststep decides the final verdict and therefor it shall be used only at the end of testcases.	1871

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Postambles/	RmvForbiddenPlmn	To remove a forbidden PLMN (C_PLMN_2) of cell B in the list on SIM.	1871
Postambles/	RmvForbiddenPlmn1	To remove a forbidden PLMN in the list on SIM.	1872
Preambles/	BasicServiceMO	1. This test step generates an appropriate MO SETUP message according to the IXIT parameters of Bearer services/Teleservices for an MO call. 2. The detailed algorithms for Bcap derivation for each Bearer service/Teleservice are described in test steps BS2xMO, BS3xMO, BS4xMO, BS5xMO, BS61or81MO, TS61MO and TS62MO.	1873
Preambles/	BasicServiceMOorTelephony	To get a MO SETUP message with right BC IE.	1877
Preambles/	BasicServiceMT	1. This test step generates an appropriate MT SETUP message according to the IXIT parameters of Bearer services/Teleservices for an MT call. If possible the test step generates a 2nd MT SETUP message for TC_11_1_1. 2. The Bearer Capability in the 2nd SETUP message is chosen in such a way that as many parameters as possible are different from the Bcap in the first MT SETUP message. The detailed algorithms for Bcap derivation for each Bearer service/Teleservice are described in test steps BS2xMT, BS3xMT, BS61or81MT, TS61MT and TS62MT.	1878
Preambles/	BasicServiceMTorTelephony	To get a MT SETUP message with right BC IE.	1880
Preambles/	BS2xMO	MO SETUP message with right Bcap for BS2x service.	1881
Preambles/	BS2xMT	MT SETUP message with right Bcap for BS2x service.	1885
Preambles/	BS3xMO	MO SETUP message with right Bcap for BS3x service.	1889
Preambles/	BS3xMT	MT SETUP message with right Bcap for BS3x service.	1894
Preambles/	BS4xMO	MO SETUP message with right Bcap for BS4x service.	1900
Preambles/	BS5xMO	MO SETUP message with right Bcap for BS5x service.	1902
Preambles/	BS61or81MO	To get a MO SETUP message with right BC IE for BS61 or BS81 service.	1903
Preambles/	BS61or81MT	To get a MT SETUP message with right BC IE for BS61 or BS81 service.	1908

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Preambles/	CallCfmGen	generate a CALL COMFIRMED for CALL COMFIRMED message verifying	1913
Preambles/	Chmod	To assign correct values to the test case variables TCV_ChMod and TCV_ChModb.	1922
Preambles/	Est_MO_Call	To establish a MO call in any cell.	1923
Preambles/	Est_MO_Call_init	To initiate a mobile originating call for the supported bearer capability. Only in HO cases.	1924
Preambles/	Est_MO_Call_init_HSN0	To initiate a mobile originating call for the supported bearer capability. The channel in use is frequency hopping channel.	1926
Preambles/	Est_MT_Call_FH	To establish a call with FH (in CELL A or B).	1928
Preambles/	Est_MT_CallNonFH	To establish a call with non hopping.	1929
Preambles/	IdleUpdated	This test step is called at the preamble of each test case.	1930
Preambles/	PreEnterIdleState_r02	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with some options in cell A, and wait for the SUT (MS) entering the Idle updated state. 2 parameters: max retransmission, and tx integer can be set/assigned and legal combination of CCCH−CONF, BS−AG−BLKS−RES, BS−PA−MFRMS are specified by parameter ‘ccd‘.	1941
Preambles/	PreEnterCCstateU01_21	To bring the MS into CC state U0.1 by procedure in table 26.8.1.2/1. This is used in CC testing.	1943
Preambles/	PreEnterCCstateU1_21	To bring the MS into CC state U1 by procedure in table 26.8.1.2/1. This is used in CC testing.	1944
Preambles/	PreEnterCCstateU1_22	To bring the MS into CC state U1 by procedure in table 26.8.1.2/2. This is used in CC testing.	1944
Preambles/	PreEnterCCstateU1_22Timer	To bring the MS into CC state U1 by procedure in table 26.8.1.2/2. This is used in CC testing.	1945
Preambles/	PreEnterCCstateU1_24	To bring the MS into CC state U1 by procedure in table 26.8.1.2/4. This is used in CC testing.	1946
Preambles/	PreEnterCCstateU1	To establish a mobile originating call and put the MS under test in the CC state U1.	1947
Preambles/	PreEnterCCstateU3	To establish a mobile originating call and put the MS under test in the CC state U3.	1948
Preambles/	PreEnterCCstateU3_21	To bring the MS into CC state U3 by procedure in table 26.8.1.2/1. This is used in CC testing.	1948

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Preambles/	PreEnterCCstateU3_22	To bring the MS into CC state U3 by procedure in table 26.8.1.2/2. This is used in CC testing.	1949
Preambles/	PreEnterCCstateU3_23	To bring the MS into CC state U3 by procedure in table 26.8.1.2/3. This is used in CC testing.	1949
Preambles/	PreEnterCCstateU3_24	To bring the MS into CC state U3 by procedure in table 26.8.1.2/4. This is used in CC testing.	1950
Preambles/	PreEnterCCstateU4_21	To bring the MS into CC state U4 by procedure in table 26.8.1.2/1. This is used in CC testing.	1950
Preambles/	PreEnterCCstateU4_22	To bring the MS into CC state U4 by procedure in table 26.8.1.2/2. This is used in CC testing.	1950
Preambles/	PreEnterCCstateU4_23	To bring the MS into CC state U4 by procedure in table 26.8.1.2/3. This is used in CC testing.	1951
Preambles/	PreEnterCCstateU4_24	To bring the MS into CC state U4 by procedure in table 26.8.1.2/4. This is used in CC testing.	1951
Preambles/	PreEnterCCstateU6_32	To bring the MS into CC state U6 by procedure in table 26.8.1.3/2. This is used in CC testing.	1951
Preambles/	PreEnterCCstateU7_31	To bring the MS into CC state U7 by procedure in table 26.8.1.3/1. This is used in CC testing.	1952
Preambles/	PreEnterCCstateU7_32	To bring the MS into CC state U7 by procedure in table 26.8.1.3/2. This is used in CC testing.	1952
Preambles/	PreEnterCCstateU7_33	To bring the MS into CC state U7 by procedure in table 26.8.1.3/3. This is used in CC testing.	1952
Preambles/	PreEnterCCstateU8_31	To bring the MS into CC state U8 by procedure in table 26.8.1.3/1. This is used in CC testing.	1953
Preambles/	PreEnterCCstateU8_32	To bring the MS into CC state U8 by procedure in table 26.8.1.3/2. This is used in CC testing.	1953
Preambles/	PreEnterCCstateU8_33	To bring the MS into CC state U8 by procedure in table 26.8.1.3/3. This is used in CC testing.	1954
Preambles/	PreEnterCCstateU8_34_SS	Entering U8, non hopping, no ciphering.	1955
Preambles/	PreEnterCCstateU9_31		1955
Preambles/	PreEnterCCstateU9_32	To bring the MS into CC state U9 by procedure in table 26.8.1.3/2. This is used in CC testing.	1956
Preambles/	PreEnterCCstateU9_33	To bring the MS into CC state U9 by procedure in table 26.8.1.3/3. This is used in CC testing.	1956
Preambles/	PreEnterCCstateU9_34	To bring the MS into CC state U9 by procedure in table 26.8.1.3/4. This is used in CC testing.	1957

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Preambles/	PreEnterCCstateU10	To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10. The supported bearer capability is specified in the input partameter setup. With early assigment, SETUP message does not contain SIGNAL information element.	1958
Preambles/	PreEnterCCstateU10_late	To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10. The supported bearer capability is specified in the input partameter setup. Late assigment only. The SETUP message shall contain a SIGNAL information element.	1959
Preambles/	PreEnterCCstateU10_r01	To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10 with late assignment.	1960
Preambles/	PreEnterCCstateU10_21	To bring the MS into CC state U10 by procedure in table 26.8.1.2/1. This is used in CC testing.	1961
Preambles/	PreEnterCCstateU10_22	To bring the MS into CC state U10 by procedure in table 26.8.1.2/2. This is used in CC testing.	1962
Preambles/	PreEnterCCstateU11_23	To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing.	1962
Preambles/	PreEnterCCstateU11_23Timer	To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing.	1963
Preambles/	PreEnterCCstateU11_24	To bring the MS into CC state U11 by procedure in table 26.8.1.2/4. This is used in CC testing.	1963
Preambles/	PreEnterCCstateU12_21	To bring the MS into CC state U12 by procedure in table 26.8.1.2/1. This is used in CC testing.	1964
Preambles/	PreEnterCCstateU12_22	To bring the MS into CC state U12 by procedure in table 26.8.1.2/2. This is used in CC testing.	1964
Preambles/	PreEnterCCstateU12_23	To bring the MS into CC state U12 by procedure in table 26.8.1.2/3. This is used in CC testing.	1965
Preambles/	PreEnterCCstateU19_21	To bring the MS into CC state U19 by procedure in table 26.8.1.2/1. This is used in CC testing.	1965
Preambles/	PreEnterCCstateU19_24	To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing.	1966
Preambles/	PreEnterCCstateU19_24Timer	To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing.	1966

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Preambles/	PreEstRRConn	To establish a RR connection on TSPX_SDCCH4SubDef	1967
Preambles/	PreEstRRC_MM	To establish a RR connection for MM testcases.	1968
Preambles/	PreModifySetup	To setup dual mode call and initiate MO incall modification.	1969
Preambles/	SpeechService	To selecte a speech service.	1970
Preambles/	StartCellA	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell A, frequency hopping.	1970
Preambles/	StartCellA_1	To start cell A without hopping.	1971
Preambles/	StartCellB	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B.	1972
Preambles/	StartCellB_1	To start cell B with default parameters.	1973
Preambles/	StartCellB_egsm	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B.	1974
Preambles/	StartCellB_ho	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B. Cell B has a frame number difference 'fn' and the BCCH of cell B has a delay of 'td' bits to the BCCH of cell A.	1975
Preambles/	StartCellC	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell C.	1976
Preambles/	Start_2cells		1977
Preambles/	StartMultiCells_01	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 in multiple cells for idle mode testing.	1978
Preambles/	StartMultiCells_02	To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.	1982
Preambles/	StartMultiCells_02e	To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.	1985
Preambles/	StartMultiCells_03	To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.	1988

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
Preambles/	TS61MO	MO SETUP message with right Bcap for TS61 service.	1991
Preambles/	TS62MO	MO SETUP message with right Bcap for TS62 service.	1993
Preambles/	TS61MT	MT SETUP message with right Bcap for TS61 service.	1995
Preambles/	TS62MT	MT SETUP message with right Bcap for TS62 service.	1998
Detailed Comments :			

Default Index			
Default Group Reference	**Default Id**	**Description**	**Page Nr**
	DTMFsig	To match DTMF signalling when an MMI key in the MS is depressed or released in the active state	2000
	OtherEvents	To match unexpected events and sign final verdict for preambles.	2001
	OtherEventsFail	To match unexpected events and fail the test case.	2001
	OtherEventsFail_01	To match irrelevant CHANNEL REQUEST msg and return or match other unexpected events and fail the test case.	2002
	OtherEventsFail_02	To match unexpected events and fail the test case but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assigment message.	2003
	OtherEvents_01	To match irrelevant messages and return	2003
	OtherEvents_02	To match unexpected events and sign final verdict for preambles but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assigment message.	2004
	RcvHdOvAcc	To match any HANDOVER ACCESS then return to calling tree.	2004
Detailed Comments :			

II

Declarations Part

Simple Type Definitions			
Type Name	**Type Definition**	**Type Encoding**	**Comments**
B_1	BITSTRING [1]		Generic type for 1 bit value
B_2	BITSTRING [2]		Generic type for 2 bits value
B_3	BITSTRING [3]		Generic type for 3 bits value
B_4	BITSTRING [4]		Generic type for 4 bits value
B_5	BITSTRING [5]		Generic type for 5 bits value
B_6	BITSTRING [6]		Generic type for 6 bits value
B_8	BITSTRING [8]		Generic type for 8 bits value
BCCHFRQ	BITSTRING [5]		position of a bcch carrier in the bcch channel list
BCC	BITSTRING [3]		BS colour code
BCDN	OCTETSTRING [1..10]		BCD numbers, GSM 04.08, 10.5.4.7, octet 4−13
BSIC	BITSTRING [6]		base station identity code
CCCH_CON	BITSTRING[3]		number of physical channels for ccch GSM 04.08, 10.5.2.11
CCSTATE	INTEGER(1,3,4,6,7,8,9,10,11,12,19,26,27)		
CellID	IA5String		Cell identifier
CHANNEL	BITSTRING [2]		needed channel type
CHMOD_VAL	BITSTRING[8]		value for channel mode GSM 04.08, 10.5.2.6, 10.5.2.7
CH_TDMA	BITSTRING[5]		channel type and TDMA offset GSM 04.08, 10.5.2.5
CI	OCTETSTRING [2]		cell identity, GSM 04.08, 10.5.1.1
CKSN	BITSTRING[3]		ciphering key sequence number(only key sequence) GSM 04.08, 10.5.1.2
CLRSUP	BITSTRING('10100001'B)		CLIR suppression GSM 04.08, 10.5.4.11a
CLRINV	BITSTRING('10100010'B)		CLIR invocation GSM 04.08, 10.5.4.11b
CMSVTYPE	BITSTRING [4]		CM service type
CP_CAU	OCTETSTRING [1]		cp cause GSM 04.11, 8.1.4.2
CPHALG	BITSTRING[3]		Ciphering algorithm identifier GSM 04.08, 10.5.2.9
CS	BITSTRING [2]		coding standard
EstMode	OCTETSTRING [1]		establish mode
EXTB	BITSTRING [1]		extension bit
FCS	HEXSTRING [2]		TP failure cause
FLWCNTL	INTEGER(0, 1, 2)		type of flow control. 0−−outband flow control; 1−−inband flow control; 2−− no flow control
HORF	BITSTRING [8]		handover reference
HSN	BITSTRING[6]		Hopping sequence number e.g.GSM 04.08 10.5.2.5

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Simple Type Definitions			
Type Name	**Type Definition**	**Type Encoding**	**Comments**
IDTYPE	B_4		identity type
IEI_4	BITSTRING [4]		information element identifier, type 1
IEI_8	BITSTRING [8]		information element identifier, type 2−4
L2FMTYPE	INTEGER(1..3)		L2 frame type
LENGTH	OCTETSTRING [1]		IE length or L2 pseudo length. The L2 pseudo length is composed of a L2 pseudo length value, which is 6 bits long, and of 2 additional bits. See GSM 04.08 section 10.5.2.19
LOGICCH	IA5String		
LOGCH	IA5String		
MAC	OCTETSTRING[3]		mac, e.g. GSM 04.08 10.5.2.21
MAIO	BITSTRING[6]		MAIO,GSM 04.08 10.5.2.5
MAXTXPOW	INTEGER(0..31)		Max Tx Power Level GSM 04.08, 10.5.2.4
MR	OCTETSTRING [1]		SMS RP or TP message reference
MT	BITSTRING[8]		message type, structure of it see MT0
MTI	BITSTRING [3]		SMS RP message type indicator
NCC	BITSTRING [3]		PLMN colour code
NCCP	OCTETSTRING [1]		ncc permitted
NTI	BITSTRING ('10000000'B, '10000001'B, '10000010'B)		notification indicator GSM 04.08, 10.5.4.20
PD	B_4		Protocol discriminator
PGG	BITSTRING [8]		the paging group of an MS to be paged in binary presentation
RATE	IA5String ("F", "H")		
RAND	BITSTRING [128]		random number
RCSD	BITSTRING [8]		reverse call setup direction GSM 04.08, 10.5.4.22a
RelMode	OCTETSTRING [1]		release mode
REJCAU	OCTETSTRING [1]		reject cause GSM 04.08, 10.5.3.6
RPI	BITSTRING [8]		repeat indicator
RRCAU	BITSTRING [8]		RR cause GSM 04.08, 10.5.2.31
RXLEV	BITSTRING [6]		received signal strength
SAPID	OCTETSTRING [1]		sap identifier
SENDINGMODE	INTEGER(1..4)		the mode of sending two consecutive messages containing paging mode IE

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Simple Type Definitions			
Type Name	**Type Definition**	**Type Encoding**	**Comments**
SERVICES	IA5String ("C_Telephony", "C_EmgCall", "C_AltSpchFax", "C_AutoFax", "C_Async300", "C_Async1200", "C_Async120075", "C_Async2400", "C_Async4800", "C_Async9600", "C_Sync1200", "C_Sync2400", "C_Sync4800", "C_Sync9600", "C_PAD300", "C_PAD1200", "C_PAD120075", "C_PAD2400", "C_PAD4800", "C_PAD9600", "C_Packet2400", "C_Packet4800", "C_Packet9600", "C_AltSpchData", "C_SpchData")		
SHOCT	B_4		spare half octet for type 1 information element GSM 04.08, 10.5.1.8
SKI	B_4		Skip indicator
SN	BITSTRING [3]		all possible slot number, GSM 04.08 10.5.2.5
SPB	B_1		spare bit
SP2B	B_2		2 spare bits
SP3B	B_3		3 spare bits
SP5B	B_5		5 spare bits
SP6B	B_6		6 spare bits
SRES	OCTETSTRING [4]		authentication response signature
TPCD	OCTETSTRING [1..157]		TP command data
TPSCTS	HEXSTRING [14]		TP service centre time stamp
TPUD	OCTETSTRING [1..140]		TP user data
TSC	B_3		Training sequence code,GSM 04.08 10.5.2.5
T1	BITSTRING [11]		
T1_	B_5		T1’
T2	B_5		
T3	BITSTRING [6]		
T3_	B_3		T3’
TI_V	B_3		TI value
TMSI_V	OCTETSTRING[4]		TMSI value is octetstring of length 4
TZONES	INTEGER (−79..79)		time zones in 15 minute steps
WI	HEXSTRING [2]		wait indication, unit in second

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Simple Type Definitions

Detailed Comments :

Structured Type Definition

Type Name : ACST

Encoding Variation :

Comments : Auxiliary states (CC information element)
GSM 04.08, 10.5.4.4

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00100100’B
iel	LENGTH		
extb	EXTB		extension bit
sp3b	SP3B		3 spare bits
has	BITSTRING [2]		hold auxiliary state
mpas	BITSTRING [2]		multi party auxiliary state

Detailed Comments :

Structured Type Definition

Type Name : EFR_BCAP_3A_ETC

Encoding Variation :

Comments : Speech Versions preferences as supported by the EFR mobile − see GSM 04.08/10.5.4.5/octet 3a etc/"speech version indication"

Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		Octet a1, Extension bit (’0’B or ’1’B)
cod	BITSTRING[1]		Octet a1, Coding (’0’B)
spr2	BITSTRING[2]		Octet a1, Spare bits (’00’B)
svi	BITSTRING [4]		Octet a1, Speech version indication

Detailed Comments :

Structured Type Definition

Type Name : BCAP

Encoding Variation :

Comments : Bearer capability (CC information element)
GSM 04.08, 10.5.4.5

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00000100’B, octet 1
iel	LENGTH		
extb3	EXTB		extension bit (’1’B), octet 3
rchr	BITSTRING [2]		radio channel requirements ms−>n, octet 3
cs	BITSTRING [1]		coding standard, ’0’B, octet 3
tm	BITSTRING [1]		transfer mode
itc	BITSTRING [3]		information transfer capability, ’0 − 3, 7’, octet 3
oct_3a_etc_1	EFR_BCAP_3A_ETC		octet 3a etc no.1
oct_3a_etc_2	EFR_BCAP_3A_ETC		octet 3a etc no.2
oct_3a_etc_3	EFR_BCAP_3A_ETC		octet 3a etc no.3
oct_3a_etc_4	EFR_BCAP_3A_ETC		octet 3a etc no.4
oct_3a_etc_5	EFR_BCAP_3A_ETC		octet 3a etc no.5
oct_3a_etc_6	EFR_BCAP_3A_ETC		octet 3a etc no.6
extb4	EXTB		extension bit, ’1’B, octet 4
spb	SPB		spare bit , octet 4
strc	BITSTRING [2]		structure, ’0, 3’, octet 4
dplxm	BITSTRING [1]		duplex mode, octet 4
config	BITSTRING [1]		configuration, ’0’B, octet 4
nirr	BITSTRING [1]		negotiation of intermediate rate requested, octet 4
est	BITSTRING [1]		establishment, ’0’B, octet 4
extb5	EXTB		extension bit, ’1’B, octet 5
accid	BITSTRING [2]		access identify, ’00’B, octet 5
ra	BITSTRING [2]		rate adaption, ’0 − 2’, octet 5
sacp	BITSTRING [3]		signalling access protocol, ’1 − 6’, octet 5
extb6	EXTB		extension bit, ’1’B, octet 6
l1id	BITSTRING [2]		L1 identity, ’01’B, octet 6
uil1	BITSTRING [4]		user information L1 protocol, ’0000’B, octet 6
sb	BITSTRING [1]		synchronous bit, octet 6
extb6a	EXTB		extension bit, ’1’B, octet 6a
nsb	BITSTRING [1]		number of stop bits, octet 6a
nb	BITSTRING [1]		negotiation bit, ’0’B, octet 6a
ndb	BITSTRING [1]		number of data bits, octet 6a
ur	BITSTRING [4]		user rate, ’0 − 7’, octet 6a
extb6b	EXTB		extension bit, ’1’B, octet 6b

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Structured Type Definition			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
ir	BITSTRING [2]		intermediate rate, ’2, 3’, octet 6b
nictx	BITSTRING [1]		network independent clock on transmission, octet 6b
nicrx	BITSTRING [1]		network independent clock on reception, octet 6b
pi	BITSTRING [3]		parity information, ’0 − 5’, octet 6b
extb6c	EXTB		extension bit, ’1’B, octet 6c
ce	BITSTRING [2]		connection element, octet 6c
modemt	BITSTRING [5]		modem type, ’0 − 8’, octet 6c
extb7	EXTB		extension bit, ’1’B, octet 7
l2id	BITSTRING [2]		L2 identity, ’10’B, octet 7
uil2	BITSTRING [5]		user information L2 protocol, ’6, 8 − 10, 12’, octet 7
Detailed Comments :			

Structured Type Definition			
Type Name : BLOCKTYPE			
Encoding Variation :			
Comments : Block type, GSM 04.12, 3.3.1			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
spare1	SPB		
lpd	BITSTRING[2]		’01’B
lb	BITSTRING[1]		
sequence_number	BITSTRING[4]		
Detailed Comments :			

Structured Type Definition

Type Name : CAU
Encoding Variation :
Comments : Cause (CC information element)
GSM 04.08, 10.5.4.11

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00001000’B, octet 1
iel	LENGTH		
extb3	EXTB		extension bit
cs	CS		coding standard
spb	SPB		spare bit
location	BITSTRING [4]		location, ’0 − 5, 7, 12’
extb3a	EXTB		extension bit
rec	BITSTRING [7]		recommendation
extb4	EXTB		extension bit
cau_class	BITSTRING [3]		cause class
cau_va	BITSTRING [4]		cause value
cau_di	OCTETSTRING [1..28]		Diagnostics

Detailed Comments : &COMMON_U06

Structured Type Definition

Type Name : CCCAP
Encoding Variation :
Comments : Call Control Capabilities
GSM 04.08, 10.5.4.5a

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00010101’B
iel	LENGTH		length of call control capabilities contents
spr	BITSTRING [7]		spare bits ’0000000’B
dtmf	BITSTRING [1]		indication of supporting DTMF

Detailed Comments :

Structured Type Definition

Type Name : CCD
Encoding Variation :
Comments : Control channel description
GSM 04.08, 10.5.2.11

Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING [1]		spare bit
att	BITSTRING [1]		attach−detach allowed
babr	BITSTRING [3]		base station access grant blocks reservation
ccch_con	BITSTRING [3]		number of physical channels for ccch
spr2	BITSTRING [5]		spare bits
bpm	BITSTRING [3]		number of multiframes for paging request
t3212	OCTETSTRING [1]		t3212 value

Detailed Comments :

Structured Type Definition

Type Name : CCHD
Encoding Variation :
Comments : Cell channel description
GSM 04.08, 10.5.2.1

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01100010’B
rfl	OCTETSTRING [16]		reference frequency list

Detailed Comments :

Structured Type Definition

Type Name : CD
Encoding Variation :
Comments : Cell description
GSM 04.08, 10.5.2.2

Element Name	Type Definition	Field Encoding	Comments
bcch_arfcn_h	BITSTRING [2]		bcch arfcn high part
ncc	NCC		PLMN colour code
bcc	BCC		BS colour code
bcch_arfcn_l	BITSTRING [8]		bcch arfcn low part

Detailed Comments : The info element is two octets long.

Structured Type Definition

Type Name : CDPN
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01011110’B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
digits	BCDN		BCD numbers

Detailed Comments :

Structured Type Definition

Type Name : CDPS
Encoding Variation :
Comments : Called party subaddress (CC information element)
GSM 04.08, 10.5.4.8

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01101101’B
iel	LENGTH		
subad	SUBAD		Subaddress

Detailed Comments :

Structured Type Definition

Type Name : CGPN
Encoding Variation :
Comments : Calling party BCD number (CC information element)
GSM 04.08, 10.5.4.9

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01011100’B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
pisi	PI_SI		Presentation indicator & screening indicator
digits	BCDN		BCD numbers

Detailed Comments :

Structured Type Definition

Type Name : CGPS

Encoding Variation :

Comments : Calling party subaddress (CC information element)
GSM 04.08, 10.5.4.10

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01011101’B
iel	LENGTH		
subad	SUBAD		Subaddress

Detailed Comments :

Structured Type Definition

Type Name : CHD

Encoding Variation :

Comments : Channel description
GSM 04.08, 10.5.2.5

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01100100’B
cht_schn	BITSTRING [5]		channel type and TDMA offset
tn	BITSTRING [3]		timeslot number
tsc	BITSTRING [3]		training sequence code
hch	BITSTRING [1]		hopping channel
maio	BITSTRING [6]		mobile allocation index offset − hopping
hsn	BITSTRING [6]		hopping sequence number − hopping
spr	BITSTRING [2]		’00’B − non hopping
arfcn	BITSTRING [10]		absolute RF channel number − non hopping

Detailed Comments :

Structured Type Definition

Type Name : CHMOD

Encoding Variation :

Comments : Channel mode, channel mode2
GSM 04.08, 10.5.2.6, 10.5.2.7

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01100011’B, ’01100110’B
mode	B_8		

Detailed Comments :

Structured Type Definition

Type Name : CHNEED
Encoding Variation :
Comments : Channels needed
GSM 04.08, 10.5.2.8

Element Name	Type Definition	Field Encoding	Comments
ch2	CHANNEL		needed channel 2 O
ch1	CHANNEL		needed channel 1 M

Detailed Comments :

Structured Type Definition

Type Name : CNN
Encoding Variation :
Comments : Connected number (CC information element)
GSM 04.08, 10.5.4.13

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01001100’B
iel	LENGTH		
tonnpi	TON_NPI		Type of number and numbering plan
pisi	PI_SI		Presentation indicator & screening indicator
digits	BCDN		BCD numbers

Detailed Comments :

Structured Type Definition

Type Name : CNS
Encoding Variation :
Comments : Connected subaddress (CC information element)
GSM 04.08, 10.5.4.14

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01001101’B
iel	LENGTH		
subad	SUBAD		Subaddress

Detailed Comments :

Structured Type Definition

Type Name : CO

Encoding Variation :

Comments : Cell options (BCCH / SACCH)
GSM 04.08, 10.5.2.3

Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [1]		spare bit for CO/BCCH, dtxh for half rate
pwrc	BITSTRING [1]		power control indicator
dtx	BITSTRING [2]		CO/BCCH: discontinuous transmission indicator, CO/SACCH: DTX−F for the full rate
rlt	BITSTRING [4]		radio link timeout

Detailed Comments :

Structured Type Definition

Type Name : Component_T

Encoding Variation :

Comments : Component for sending (downlink)
GSM 04.80, 3.6

Element Name	Type Definition	Field Encoding	Comments
comp_part1	OCTETSTRING		Octet string before the value of invoke ID
invokeId	OCTETSTRING [1]		received value of invoke id
comp_part2	OCTETSTRING		
comp_part3	OCTETSTRING		
comp_part4	OCTETSTRING		
comp_part5	OCTETSTRING		
comp_part6	OCTETSTRING		
comp_part7	OCTETSTRING		
comp_part8	OCTETSTRING		
comp_part9	OCTETSTRING		
comp_part10	OCTETSTRING		
comp_part11	OCTETSTRING		
comp_part12	OCTETSTRING		

Detailed Comments : This component is defined for the use in the downlink (from the test system to the IUT) direction.

Structured Type Definition

Type Name : CPDATA
Encoding Variation :
Comments : CP−User data element
GSM 04.11, 8.1.4.1

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00000001’B
iel	LENGTH		
rpack	RPACK		n <−> ms, O
rpdata	RPDATA		n <−> ms, O
rperr	RPERR		n<−>ms, O
rpsmma	RPSMMA		ms −> n, O

Detailed Comments : One of the 4 types of rpdu is contained in the CPDATA.

Structured Type Definition

Type Name : CPHMS
Encoding Variation :
Comments : Cipher mode setting
GSM 04.08, 10.5.2.9

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		’1001’B
algid	BITSTRING [3]		algorithm identifier
sc	BITSTRING [1]		starting ciphering

Detailed Comments :

Structured Type Definition

Type Name : CPHKSN
Encoding Variation :
Comments : Ciphering key sequence number
GSM 04.08, 10.5.1.2

Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [1]		spare bit ’0’B
ks	BITSTRING [3]		key sequence

Detailed Comments :

Structured Type Definition

Type Name : CPH_RES
Encoding Variation :
Comments : Cipher response
GSM 04.08, 10.5.2.10

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		’1010’B
sprb	BITSTRING [3]		spare bits
cr	BITSTRING [1]		cipher response bit

Detailed Comments :

Structured Type Definition

Type Name : CSP
Encoding Variation :
Comments : Cell selection parameters
GSM 04.08, 10.5.2.4

Element Name	Type Definition	Field Encoding	Comments
crh	BITSTRING [3]		cell reselected hysteresis
mtmc	BITSTRING [5]		MS maximum TX power for CCH
acs	BITSTRING [1]		additional reselect parameter indicator
neci	BITSTRING [1]		half rate support
ram	BITSTRING [6]		MS minimum received signal level

Detailed Comments :

Structured Type Definition

Type Name : CST
Encoding Variation :
Comments : Call status (CC information element)
GSM 04.08, 10.5.4.6

Element Name	Type Definition	Field Encoding	Comments
cs	CS		coding standard
csv	BITSTRING [6]		call status value

Detailed Comments :

Structured Type Definition

Type Name : FIE

Encoding Variation :

Comments : Facility information element
GSM 04.80, 3.6

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00011100’B
iel	LENGTH		
components_1	Components		Components of asn.1 type, for receiving uplink components
components_t	Component_T		Component of TTCN type, for sending a downlink component

Detailed Comments : When sending normally only one component is sent, but when receiving any number of components can be received even though normally we are only interested in one component during the testing.

Structured Type Definition

Type Name : FN

Encoding Variation :

Comments : The time in reference to the frame numbering corresponding to the absolute frame number modulo 42432.

Element Name	Type Definition	Field Encoding	Comments
t1_	T1_		
t3	T3		
t2	T2		

Detailed Comments : In STRT and RQR

Structured Type Definition

Type Name : FRQCHS

Encoding Variation :

Comments : Frequency channel sequence
GSM 04.08, 10.5.2.12

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01101001’B
larfcn	OCTETSTRING [1]		lowest ARFCN (1−124)
incs	OCTETSTRING [8]		increment skip ARFCN n

Detailed Comments :

Structured Type Definition

Type Name : FRQL

Encoding Variation :

Comments : Frequency list, frequency short list
GSM 04.08, 10.5.2.5, 10.5.2.6

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00000101’B, ’00000010’B
iel	LENGTH		OCTETSTRING [1]
fl	OCTETSTRING		list of the absolute radio frequency channel numbers

Detailed Comments : frequency short list has a fixed length of 10 octets and does not contain the length indicator.

Structured Type Definition

Type Name : FRQPARA

Encoding Variation :

Comments : Parameters for Description of basic physical channel in frequency domain.

Element Name	Type Definition	Field Encoding	Comments
hch	BITSTRING[1]		hopping channel
maio	BITSTRING [6]		mobile allocation index offset − hopping, if hch = 1, otherwise OMIT
hsn	BITSTRING [6]		hopping sequence number − hopping, if hch = 1, otherwise OMIT
spr	BITSTRING [2]		’00’B − non hopping, if hch = 0, otherwise OMIT
arfcn	BITSTRING [10]		absolute RF channel number − non hopping, if hch = 0, otherwise OMIT
maclength	LENGTH		’00’O for non hopping
mac_8n	BITSTRING [8]		mac64 − mac57
mac_7n	BITSTRING [8]		mac56 − mac49
mac_6n	BITSTRING [8]		mac48 − mac41
mac_5n	BITSTRING [8]		mac40 − mac33
mac_4n	BITSTRING [8]		mac32 − mac25
mac_3n	BITSTRING [8]		mac24 − mac17
mac_2n	BITSTRING [8]		mac16 − mac9
mac_1n	BITSTRING [8]		mac8 − mac1
flst	FRQL		frequency list used in hopping channel, otherwise OMIT

Detailed Comments :

Structured Type Definition

Type Name : HLCMP
Encoding Variation :
Comments : High layer compatibility (CC information element)
GSM 04.08, 10.5.4.16, ITU Q.931

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111101’B
iel	LENGTH		
extb3	EXTB		extension bit (’1’B)
cs	BITSTRING [2]		coding standard
in	BITSTRING [3]		interpretation
pmpp	BITSTRING [2]		presentation method of protocol profile
extb4	EXTB		extension bit, octet 4
hlci	BITSTRING [7]		high layer characteristics identification
extb4a	EXTB		extension bit, ’1’B, octet 4a
ehlci	BITSTRING [7]		extended high layer characteristics identification

Detailed Comments :

Structured Type Definition

Type Name : HOACC_PARA
Encoding Variation :
Comments : Handover Access parameters

Element Name	Type Definition	Field Encoding	Comments
num_bursts	OCTETSTRING[1]		
min_mspwr	OCTETSTRING[1]		
max_mspwr	OCTETSTRING[1]		
min_msta	BITSTRING[8]		
max_msta	BITSTRING[8]		

Detailed Comments :

Structured Type Definition

Type Name : IARESTOCT
Encoding Variation :
Comments :

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		
iaroct1	OCTETSTRING[1..11]		p=00 format
iaroct2	IARESTOCT2		p=10 format used in TC_26_6_13_9, TC_26_6_13_10

Detailed Comments :

Structured Type Definition

Type Name : IARESTOCT2
Encoding Variation :
Comments :

Element Name	Type Definition	Field Encoding	Comments
p	BITSTRING[2]		’10’B p=10 format
frqparalen	BITSTRING[6]		length of frequency parameters contents
spbt1	BITSTRING[2]		spare bits ’00’B
maio	BITSTRING[6]		MAIO mobile allocation index offset
ma	OCTETSTRING[0..8]		MA mobile allocation
spbt2	OCTETSTRING[0..8]		spare bits ’2B’O

Detailed Comments :

Structured Type Definition

Type Name : KPF
(keypad facility)
Encoding Variation :
Comments : keypad facility
GSM 04.08 clause 10.5.4.17

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		keypad facility identity, ’00101100’B
extb	EXTB		extension bit (’0’B)
kpf_info	IA5String [1]		one DTMF digit (IA5 character)

Detailed Comments : Is extb needed?

Structured Type Definition

Type Name : L1HD
Encoding Variation :
Comments : Layer 1 Header

Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING[3]		spare bits
mspwrlvl	BITSTRING[5]		actual MS power level
spr2	BITSTRING[1]		spare bit
ta	BITSTRING[7]		actual timing advance

Detailed Comments :

Structured Type Definition

Type Name : LAI

Encoding Variation :

Comments : Location area identification
GSM 04.08, 10.5.1.3

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00010011’B
mcc	OCTETSTRING [2]		mobile country code, 3 digits
mnc	OCTETSTRING [1]		mobile network code, 2 BCD digits
lac	OCTETSTRING [2]		location area code

Detailed Comments :

Structured Type Definition

Type Name : LLCMP

Encoding Variation :

Comments : Low layer compatibility (CC information element)
GSM 04.08, 10.5.4.18 and ETS DE/SPS−5034−1 (update of ETS 300 102−1)

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111100’B
iel	LENGTH		
extb3	EXTB		extension bit , octet 3
cs	BITSTRING [2]		coding standard, octet 3
itc	BITSTRING [5]		information transfer capability, octet 3
extb3a	EXTB		extension bit, ’1’B, octet 3a
negind	BITSTRING[1]		negotiation indicator, octet 3a
spb3a	SP6B		spare bits, ’000000’B, octet 3a
extb4	EXTB		extension bit, octet 4
tm	BITSTRING [2]		transfer mode
itr	BITSTRING [5]		information transfer rate, octet 4
extb4_1	EXTB		extension bit, ’1’B, octet 4.1
rateml	BITSTRING [7]		rate multiplier, octet 4.1
extb5	EXTB		extension bit, octet 5
l1id	BITSTRING [2]		L1 identity, ’01’B, octet 5
uil1	BITSTRING [5]		user information L1 protocol, octet 5
extb5a	EXTB		extension bit, octet 5a
sb	BITSTRING [1]		synchronous bit, octet 5a
neg	BITSTRING [1]		negotiation bit, octet 5a
ur	BITSTRING [5]		user rate, octet 5a
extb5b1	EXTB		extension bit, octet 5b1
ir	BITSTRING [2]		intermediate rate, octet 5b1
nictx	BITSTRING [1]		network independent clock on transmission, octet 5b1
nicrx	BITSTRING [1]		network independent clock on reception, octet 5b1
fctx	BITSTRING [1]		flow control on transmission, octet 5b1
fcrx	BITSTRING [1]		flow control on reception, octet 5b1
spb5b1	SPB		spare bit, ’0’B, octet 5b1
extb5b2	EXTB		extension bit, octet 5b2
hdrb	BITSTRING[1]		Hdr/no Hdr−bit, octet 5b2
mfs	BITSTRING[1]		Multi frame support, octet 5b2
mode	BITSTRING[1]		Mode, octet 5b2
llineg	BITSTRING[1]		LLI negotiation, octet 5b2
ass	BITSTRING[1]		Assignor/Assignee, octet 5b2
ibob	BITSTRING[1]		Inband/outband negotiation, octet 5b2
spb5b2	SPB		spare bit, ’0’B, octet 5b2

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Structured Type Definition			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
extb5c	EXTB		extension bit, octet 5c
nsb	BITSTRING [2]		number of stop bits, octet 5c
ndb	BITSTRING [2]		number of data bits, octet 5c
pi	BITSTRING [3]		parity, octet 5c
extb5d	EXTB		extension bit, ’1’B, octet 5d
dplxm	BITSTRING [1]		duplex mode, octet 5d
modemt	BITSTRING [6]		modem type, octet 5d
extb6	EXTB		extension bit, octet 6
l2id	BITSTRING [2]		L2 identity, ’10’B, octet 6
uil2	BITSTRING [5]		user information L2 protocol, octet 6
extb6a1	EXTB		extension bit, ’1’B, octet 6a1
modl2	BITSTRING[2]		mode, octet 6a1
spb6a1	SP3B		spare bits , ’000’B, octet 6a1
q933	BITSTRING [2]		Q.933 use
extb6a2	EXTB		extension bit, ’1’B, octet 6a2
usl2pi	BITSTRING[7]		user specified layer 2 protocol information, octet 6a2
extb6b	EXTB		extension bit, ’1’B, octet 6b
ws	BITSTRING[7]		window size, octet 6b
extb7	EXTB		extension bit, octet 7
l3id	BITSTRING [2]		L3 identity, ’11’B, octet 7
uil3	BITSTRING [5]		user information L3 protocol, octet 7
extb7a1	EXTB		extension bit, octet 7a1
modl3	BITSTRING[2]		mode, octet 7a1
spb7a1	SP5B		spare bits , ’00000’B, octet 7a1
extb7a2	EXTB		extension bit, ’1’B, octet 7a2
usl3pi	BITSTRING[7]		user specified layer 3 protocol information, octet 7a2
extb7b	EXTB		extension bit, octet 7b
spb7b	SP3B		spare bits , ’000’B, octet 7b
dps	BITSTRING [4]		default packet size, octet 7b
extb7c	EXTB		extension bit, ’1’B, octet 7c
pws	BITSTRING[7]		packet window size, octet 7bc
Detailed Comments :			

Structured Type Definition

Type Name : LUT
Encoding Variation :
Comments : Location updating type
GSM 04.08, 10.5.3.5

Element Name	Type Definition	Field Encoding	Comments
foreq	BITSTRING [1]		follow−on request bit
sprb	BITSTRING [1]		spare bit ’0’B
lut	BITSTRING [2]		location updating type

Detailed Comments :

Structured Type Definition

Type Name : MA
Encoding Variation :
Comments : Mobile allocation
GSM 04.08, 10.5.2.21

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01110010’B
iel	LENGTH		’00’O for non hopping
mac_8n	BITSTRING [8]		mac64 − mac57
mac_7n	BITSTRING [8]		mac56 − mac49
mac_6n	BITSTRING [8]		mac48 − mac41
mac_5n	BITSTRING [8]		mac40 − mac33
mac_4n	BITSTRING [8]		mac32 − mac25
mac_3n	BITSTRING [8]		mac24 − mac17
mac_2n	BITSTRING [8]		mac16 − mac9
mac_1n	BITSTRING [8]		mac8 − mac1

Detailed Comments :

Structured Type Definition

Type Name : MI
Encoding Variation :
Comments : Mobile identity
GSM 04.08, 10.5.1.4

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00010111’B
iel	LENGTH		
idigit_1	BITSTRING [4]		first digit
oei	BITSTRING [1]		odd / even identity length
toi	BITSTRING [3]		type of identity
idigits_other	OCTETSTRING [0..7]		other digits

Detailed Comments :

Structured Type Definition

Type Name : MODEMTYPE
Encoding Variation :
Comments :

Element Name	Type Definition	Field Encoding	Comments
v_abt1	B_5		

Detailed Comments :

Structured Type Definition

Type Name : MSCLM1
Encoding Variation :
Comments : mobile station classmark 1
GSM 04.08, 10.5.1.5

Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING [1]		spare bit ’0’B
rl	BITSTRING [2]		revision level
spr2	BITSTRING [1]		spare bit ’0’B
a5_1	BITSTRING [1]		a5/1 algorithm supported
rfpc	BITSTRING [3]		rf power capability

Detailed Comments : 2 octets long

Structured Type Definition

Type Name : MSCLM2
Encoding Variation :
Comments : mobile station classmark 2
GSM 04.08, 10.5.1.6

Element Name	Type Definition	Field Encoding	Comments
iel	LENGTH		OCTETSTRING [1]
spr1	BITSTRING [1]		spare bit ’0’B
rl	BITSTRING [2]		revision level
spr2	BITSTRING [1]		spare bit ’0’B
a5_1	BITSTRING [1]		a5/1 algorithm supported
rfpc	BITSTRING [3]		rf power capability
spr3	BITSTRING [1]		spare bit ’0’B
psc	BITSTRING [1]		pseudo synchronisation capability
sssi	BITSTRING [2]		SS screen indicator
smc	BITSTRING [1]		short message capability
spr4	BITSTRING [2]		spare bit ’00’B
fc	BITSTRING [1]		frequency capability
cm3	BITSTRING [1]		classmark 3 indicator
spr5	BITSTRING [5]		spare bit ’00000’B
a5_3	BITSTRING [1]		a5/3 algorithm supported
a5_2	BITSTRING [1]		a5/2 algorithm supported

Detailed Comments : 4 octets long

Structured Type Definition

Type Name : MSCLM3

Encoding Variation :

Comments : Mobile station classmark 3
GSM 04.08, 10.5.1.7

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00100000’B
iel	LENGTH		OCTETSTRING [1]
spr1	BITSTRING [4]		spare bits
a5_7	BITSTRING [1]		a5/7 algorithm supported
a5_6	BITSTRING [1]		a5/6 algorithm supported
a5_5	BITSTRING [1]		a5/5 algorithm supported
a5_4	BITSTRING [1]		a5/4 algorithm supported
spr2	OCTETSTRING [11]		

Detailed Comments : The info element has 14 octets

Structured Type Definition

Type Name : MSRR
Encoding Variation :
Comments : measurement results
GSM 04.08, 10.5.2.20

Element Name	Type Definition	Field Encoding	Comments
ba_used	BITSTRING [1]		bcch allocation used
dtx_used	BITSTRING [1]		dtx was used
rxlev_fsc	RXLEV		received signal strength on the full serving cell
spr1	BITSTRING [1]		spare bit
meas_valid	BITSTRING [1]		measurement results valid
rxlev_ssc	RXLEV		received signal strength on a subset of the serving cell
spr2	BITSTRING [1]		spare bit
rxqual_fsc	BITSTRING [3]		received signal quality on the full serving cell
rxqual_ssc	BITSTRING [3]		received signal quality on a subset of the serving cell
no_nc	BITSTRING [3]		number of neighbouring cells (nc)
rxlev_nc1	RXLEV		received signal strength on nc1
bcchfrq_nc1	BCCHFRQ		bcch frequency position of nc1
bsic_nc1	BSIC		base station identity code of nc1
rxlev_nc2	RXLEV		received signal strength on nc2
bcchfrq_nc2	BCCHFRQ		bcch frequency position of nc2
bsic_nc2	BSIC		base station identity code of nc2
rxlev_nc3	RXLEV		received signal strength on nc3
bcchfrq_nc3	BCCHFRQ		bcch frequency position of nc3
bsic_nc3	BSIC		base station identity code of nc3
rxlev_nc4	RXLEV		received signal strength on nc4
bcchfrq_nc4	BCCHFRQ		bcch frequency position of nc4
bsic_nc4	BSIC		base station identity code of nc4
rxlev_nc5	RXLEV		received signal strength on nc5
bcchfrq_nc5	BCCHFRQ		bcch frequency position of nc5
bsic_nc5	BSIC		base station identity code nc5
rxlev_nc6	RXLEV		received signal strength on nc6
bcchfrq_nc6	BCCHFRQ		bcch frequency position of nc6

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Structured Type Definition			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
bsic_nc6	BSIC		base station identity code of nc6
Detailed Comments : The info element has a fixed length of 16 octets.			

Structured Type Definition			
Type Name : MTDIF **Encoding Variation :** **Comments :** Mobile time difference GSM 04.08, 10.5.1.21a			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
iei	IEI_8		’01110111’B
iel	LENGTH		OCTETSTRING [1]
value	OCTETSTRING [3]		one unit = 24/13 microseconds (in half bit periods)
Detailed Comments :			

Structured Type Definition			
Type Name : NCD **Encoding Variation :** **Comments :** Neighbour cells description GSM 04.08, 10.5.2.22			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
rfl2	BITSTRING [2]		2 reference frequencies
extind	BITSTRING [1]		extension indication
baind	BITSTRING [1]		bcch allocation sequence number indication
rfl4	BITSTRING [4]		4 reference frequencies
rfl	OCTETSTRING [15]		remaining reference frequency list
Detailed Comments :			

Structured Type Definition

Type Name : NCD2
Encoding Variation :
Comments : Neighbour cells description2
GSM 04.08, 10.5.2.22b

Element Name	Type Definition	Field Encoding	Comments
b128	BITSTRING [1]		Bit 128, format−ID
mbrpt	BITSTRING [2]		Multiband reporting
baind	BITSTRING [1]		bcch allocation sequence number indication
b122_124	BITSTRING [3]		Bit 124 − 122, format ID next
rfl1	BITSTRING [1]		1 reference frequency
rfl	OCTETSTRING [15]		remaining reference frequency list

Detailed Comments :

Structured Type Definition

Type Name : PCMD
Encoding Variation :
Comments : Power command and access type
GSM 04.08, 10.5.2.28, 10.5.2.28a

Element Name	Type Definition	Field Encoding	Comments
sprb	BITSTRING [3]		3 spare bits for the power command, ATC (asccess type control) and 2 spare bits for the power command and access type
pl	BITSTRING [5]		power level (0−31)

Detailed Comments :

Structured Type Definition

Type Name : PI
Encoding Variation :
Comments : Progress indicator
GSM 04.08, 10.5.4.21

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00011110’B
iel	LENGTH		’00’O for non hopping
extb3	EXTB		extension bit (’0’B)
cs	BITSTRING [2]		coding standard
spb	SPB		spare bit
loc	BITSTRING [4]		location
extb4	EXTB		extension bit (’0’B)
prd	BITSTRING [7]		progress description

Detailed Comments : total 4 octets

Structured Type Definition

Type Name : PI_SI
Encoding Variation :
Comments : Presentation indicator & screening indicator
GSM 04.08, 10.5.4.9, 10.5.4.13

Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		extension bit
pi	BITSTRING [2]		presentation indicator, ’0 − 2’
sp3b	SP3B		3 spare bits
si	BITSTRING [2]		screening indicator

Detailed Comments :

Structured Type Definition

Type Name : PM
Encoding Variation :
Comments : Page mode
GSM 04.08, 10.5.2.26

Element Name	Type Definition	Field Encoding	Comments
sprb	B_2		spare bits
pgm	B_2		page mode

Detailed Comments :

Structured Type Definition

Type Name : RACHCP
Encoding Variation :
Comments : Rach control parameters
GSM 04.08, 10.5.2.29

Element Name	Type Definition	Field Encoding	Comments
maxrtx	BITSTRING [2]		maximum retransmissions
txint	BITSTRING [4]		Tx integer, number of slots to spread transmission
cba	BITSTRING [1]		cell barred for access
re	BITSTRING [1]		call reestablishment allowed
acc_2	BITSTRING [5]		access control class 15−11
ec	BITSTRING [1]		emergency call allowed
acc_1	BITSTRING [10]		access control class 9−0

Detailed Comments : The info element has a fixed length of 3 octets.

Structured Type Definition

Type Name : RPACK
Encoding Variation :
Comments : SMS RP ACKNOWLEDGEMENT ms <−> n
GSM 04.11, 7.3.3

Element Name	Type Definition	Field Encoding	Comments
sprb	SP5B		spare 5 bits M
rpmti	MTI		message type indicator M BITSTRING [3]
rpmr	MR		message reference M OCTETSTRING [1]

Detailed Comments :

Structured Type Definition

Type Name : RPCAU
Encoding Variation :
Comments : RP user data element
GSM 04.11, 8.2.5.4

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01000010’B, OMIT
iel	LENGTH		
extb2	EXTB		extension bit
rpcau_class	BITSTRING [3]		cause class
rpcau_va	BITSTRING [4]		cause value
rpcau_di	OCTETSTRING [1]		Diagnostics

Detailed Comments :

Structured Type Definition

Type Name : RPDATA
Encoding Variation :
Comments : SMS RP DATA ms <−> n
GSM 04.11, 7.3.1

Element Name	Type Definition	Field Encoding	Comments
sprb	SP5B		spare 5 bits M
rpmti	MTI		message type indicator M BITSTRING [3]
rpmr	MR		message reference M OCTETSTRING [1]
rpOaddr	CDPN		RP originator address M
rpDaddr	CDPN		RP destination address M
rpusrdat	RPUSRDAT		RP−User data element M OCTETSTRING [1..234]

Detailed Comments :

Structured Type Definition

Type Name : RPERR
Encoding Variation :
Comments : SMS RP ERROR ms <−> n
GSM 04.11, 7.3.4

Element Name	Type Definition	Field Encoding	Comments
sprb	SP5B		spare 5 bits M
rpmti	MTI		message type indicator M BITSTRING [3]
rpmr	MR		message reference M OCTETSTRING [1]
rpcau	RPCAU		RP cause 2−3 octets M
rpusrdat	RPUSRDAT		RP−User data element O OCTETSTRING [0..240]

Detailed Comments :

Structured Type Definition

Type Name : RPSMMA
Encoding Variation :
Comments : SMS RP SMMA ms −> n
GSM 04.11, 7.3.2

Element Name	Type Definition	Field Encoding	Comments
sprb	SP5B		spare 5 bits M
rpmti	MTI		message type indicator M BITSTRING [3]
rpmr	MR		message reference M OCTETSTRING [1]

Detailed Comments : SM memory available

Structured Type Definition

Type Name : RPUSRDAT
Encoding Variation :
Comments : RP user data element
GSM 04.11, 8.2.5.3, GSM 03.40, 9.2.2

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01000001’B
iel	LENGTH		
tpdeliver	SMDLVR		max. 165 bytes, n −> ms, O
tpsubmit	SMSBMT		max. 164 bytes, ms −> n, O
tpstatus_rpt	SMST_RPT		max. 29 bytes, O
tpcommand	SMCMD		max. 162 bytes, O
tpdlvr_sbmt_rpt	SMDLVR_RPT		2 bytes, n <−> ms, O

Detailed Comments : One of the six tpdu is contained in the RPUSRDATA. Since the structures of the messages SMS−Deliver−Report and SMS−Submit−Report are identical, they have been combined to tpdlvr_sbmt_rpt and therefore only five tp message types exist in this type definition.

Structured Type Definition

Type Name : RQR
Encoding Variation :
Comments : Request reference
GSM 04.08, 10.5.2.30

Element Name	Type Definition	Field Encoding	Comments
ra	BITSTRING [8]		GSM 04.08, 9.1.8
fn	FN		

Detailed Comments :

Structured Type Definition

Type Name : SI3RO
Encoding Variation :
Comments : SI3 Rest Octets
GSM 04.08, 10.5.2.34

Element Name	Type Definition	Field Encoding	Comments
pi	BITSTRING [1]		Cell reselect parameter indicator
cbq	BITSTRING [1]		Cell bar qualify
cro	BITSTRING [6]		Cell reselect offset
to	BITSTRING [3]		Temporary offset
pt	BITSTRING [5]		Penalty time
poi	BITSTRING [1]		Power offset indicator
po	BITSTRING [2]		Power offset
ti	BITSTRING [1]		SI 2ter indicator
ecsc	BITSTRING [1]		Early classmark setting control
spr1	BITSTRING [3]		spare bits
spr2	BITSTRING [8]		spare octet

Detailed Comments : The info element has a fixed length of 4 octets.

Structured Type Definition

Type Name : SI4RO

Encoding Variation :

Comments : SI4 Rest Octets
GSM 04.08, 10.5.2.35

Element Name	Type Definition	Field Encoding	Comments
pi	BITSTRING [1]		Cell reselect parameter indicator
cbq	BITSTRING [1]		Cell bar qualify
cro	BITSTRING [6]		Cell reselect offset
to	BITSTRING [3]		Temporary offset
pt	BITSTRING [5]		Penalty time
poi	BITSTRING [1]		Power offset indicator
po	BITSTRING [2]		Power offset
spr1	BITSTRING [5]		spare bits
spr2	BITSTRING [8]		spare octet
spr3	BITSTRING [8]		spare octet
spr4	BITSTRING [8]		spare octet
spr5	BITSTRING [8]		spare octet
spr6	BITSTRING [8]		spare octet
spr7	BITSTRING [8]		spare octet
spr8	BITSTRING [8]		spare octet

Detailed Comments : The info element has a fixed length of 10 octets.

Structured Type Definition

Type Name : SI7RO
Encoding Variation :
Comments : SI7 Rest Octets
GSM 04.08, 10.5.2.36

Element Name	Type Definition	Field Encoding	Comments
pi	BITSTRING [1]		Cell reselect parameter indicator
cbq	BITSTRING [1]		Cell bar qualify
cro	BITSTRING [6]		Cell reselect offset
to	BITSTRING [3]		Temporary offset
pt	BITSTRING [5]		Penalty time
poi	BITSTRING [1]		Power offset indicator
po	BITSTRING [2]		Power offset
spr1	BITSTRING [5]		spare bits
spr2	BITSTRING [8]		spare octet
spr3	BITSTRING [8]		spare octet
spr4	BITSTRING [8]		spare octet
spr5	BITSTRING [8]		spare octet
spr6	BITSTRING [8]		spare octet
spr7	BITSTRING [8]		spare octet
spr8	BITSTRING [8]		spare octet
spr9	BITSTRING [8]		spare octet
spr10	BITSTRING [8]		spare octet
spr11	BITSTRING [8]		spare octet
spr12	BITSTRING [8]		spare octet
spr13	BITSTRING [8]		spare octet
spr14	BITSTRING [8]		spare octet
spr15	BITSTRING [8]		spare octet
spr16	BITSTRING [8]		spare octet
spr17	BITSTRING [8]		spare octet
spr18	BITSTRING [8]		spare octet

Detailed Comments : The info element has a fixed length of 20 octets.

Structured Type Definition

Type Name : SIGNAL
Encoding Variation :
Comments : Signal (CC information element)
GSM 04.08, 10.5.4.23

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’00110100’B
sigv	BITSTRING [8]		signal value

Detailed Comments :

Structured Type Definition

Type Name : SERIAL_NUMBER
Encoding Variation :
Comments : Serial number for SMSCB,
GSM 3.41, 9.3.2

Element Name	Type Definition	Field Encoding	Comments
gs	BITSTRING[2]		
message_code	BITSTRING[10]		
update_number	BITSTRING[4]		

Detailed Comments :

Structured Type Definition

Type Name : SMCMD
Encoding Variation :
Comments : SMS COMMAND, ms − > n.
GSM 03.40, 9.2.2.4

Element Name	Type Definition	Field Encoding	Comments
sprb1	SP2B		2 spare bits
srr	BITSTRING[1]		TP Status Report Request
sprb2	SP3B		3 spare bits
mti	BITSTRING [2]		TP message type indicator
mr	MR		TP message reference
pid	TPPID		TP protocol identifier
ct	OCTETSTRING [1]		TP command type, ’0−3’
mn	OCTETSTRING [1]		TP message number
da	TPA		TP destination address
cdl	LENGTH		TP command data length
cd	TPCD		TP command data, max 157 octets

Detailed Comments :

Structured Type Definition

Type Name : SMDLVR

Encoding Variation :

Comments : SMS DELIVER, n − > ms.
GSM 03.40, 9.2.2.1

Element Name	Type Definition	Field Encoding	Comments
rp	BITSTRING [1]		TP reply path, M
udhi	BITSTRING [1]		TP User Data Header Indication
sri	BITSTRING [1]		TP status report indication, O
sprb2	SP2B		2 spare bits
mms	BITSTRING [1]		TP more message to send, M
mti	BITSTRING [2]		TP message type indicator, M
oa	TPA		TP originator address
pid	TPPID		TP protocol identifier, M
dcs	TPDCS		TP data coding scheme, M
scts	TPSCTS		TP service centre time stamp
udl	LENGTH		TP user data length
ud	TPUD		TP user data

Detailed Comments :

Structured Type Definition

Type Name : SMDLVR_RPT

Encoding Variation :

Comments : SMS DELIVER or SUBMIT REPORT contained in the RP ERROR PDU, n <−> ms.
GSM 03.40, 9.2.2.1a, 9.2.2.2a.

Element Name	Type Definition	Field Encoding	Comments
sprb1	SP6B		6 spare bits
mti	BITSTRING [2]		TP message type indicator, M
fcs	FCS		TP failure cause

Detailed Comments :

Structured Type Definition

Type Name : SMSBMT
Encoding Variation :
Comments : SMS SUBMIT, ms −> n.
GSM 03.40, 9.2.2.2

Element Name	Type Definition	Field Encoding	Comments
rp	BITSTRING [1]		TP reply path indication
udhi	BITSTRING [1]		
srr	BITSTRING [1]		TP status report request
vpf	BITSTRING [2]		TP validity period format
rd	BITSTRING [1]		
mti	BITSTRING [2]		TP message type indicator
mr	MR		TP message reference
da	TPA		TP destination address
pid	TPPID		TP protocol identifier, M
dcs	TPDCS		TP data coding scheme, M
vp1	OCTETSTRING [1]		TP validity period, 1 octet
vp7	TPSCTS		TP validity period, 7 octets
udl	LENGTH		TP user data length
ud	TPUD		TP user data

Detailed Comments :

Structured Type Definition

Type Name : SMSCBpack
Encoding Variation :
Comments : SMS cell broadcasting packing data n −> ms.
GSM 03.38, 6.1.2.2.1

Element Name	Type Definition	Field Encoding	Comments
block1	OCTETSTRING [16]		1st block
block2	OCTETSTRING [22]		2nd block
block3	OCTETSTRING [22]		3rd block
block4	OCTETSTRING [22]		4th block

Detailed Comments :

Structured Type Definition

Type Name : SMST_RPT
Encoding Variation :
Comments : SMS STATUS REPORT, n − > ms.
GSM 03.40, 9.2.2.3

Element Name	Type Definition	Field Encoding	Comments
sprb1	SP5B		5 spare bits
mms	BITSTRING [1]		TP more message to send, M
mti	BITSTRING [2]		TP message type indicator, M
mr	MR		TP message reference
ra	TPA		TP recipient address
scts	TPSCTS		TP service centre time stamp
dt	TPSCTS		TP discharge time
st	TPST		TP status

Detailed Comments :

Structured Type Definition

Type Name : SSVI
Encoding Variation :
Comments : SS version indicator
GSM 04.08, 10.5.4.24

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111111’B
iel	LENGTH		’00’O for non hopping
ssv	OCTETSTRING [1]		ss version information

Detailed Comments :

Structured Type Definition

Type Name : STRT
Encoding Variation :
Comments : Starting time
GSM 04.08, 10.5.2.38

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111101’B
fn	FN		

Detailed Comments :

Structured Type Definition

Type Name : SUBAD
Encoding Variation :
Comments : Subaddress
GSM 04.08, 10.5.4.8, 10.5.4.10, 10.5.4.14

Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		extension bit
tos	BITSTRING [3]		Type of subaddress, ’0, 2’
oei	BITSTRING [1]		odd/even indicator
sp3b	SP3B		3 spare bits
si	OCTETSTRING [2..23]		subaddress information

Detailed Comments :

Structured Type Definition

Type Name : SYNCHI
Encoding Variation :
Comments : Synchronization indication
GSM 04.08, 10.5.2.39

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_4		’1101’B
nci	B_1		normal cell indication
rot	B_1		report observed time difference
si	B_2		synchronisation indication

Detailed Comments :

Structured Type Definition

Type Name : TA
Encoding Variation :
Comments : Timing advance
GSM 04.08, 10.5.2.40

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111101’B
sprb	BITSTRING [2]		’00’B
value	BITSTRING [6]		one unit = 48/13 microseconds (in 1 bit periods)

Detailed Comments :

Structured Type Definition

Type Name : TDIF
Encoding Variation :
Comments : Time difference
GSM 04.08, 10.5.1.41

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111011’B
iel	LENGTH		OCTETSTRING [1]
value	OCTETSTRING [1]		one unit = 24/13 microseconds (in half bit periods)

Detailed Comments :

Structured Type Definition

Type Name : TI
Encoding Variation :
Comments : Transaction identifier
GSM 04.08, 10.1

Element Name	Type Definition	Field Encoding	Comments
ti_f	BITSTRING [1]		Flag
ti_v	TI_V		TI value

Detailed Comments :

Structured Type Definition

Type Name : TMSI
Encoding Variation :
Comments : Temporary
GSM 04.08, 10.5.2.42

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111110’B
tmsi_val	OCTETSTRING [4]		

Detailed Comments :

Structured Type Definition

Type Name : TON_NPI

Encoding Variation :

Comments : Type of number and numbering plan
GSM 04.08, 10.5.4.7, 10.5.4.9, 10.5.4.13, GSM 03.40, 9.1.2.5

Element Name	Type Definition	Field Encoding	Comments
extb	EXTB		extension bit
ton	BITSTRING [3]		Type of number, ’0 − 6’
npi	BITSTRING [4]		Numbering plan id., ’0, 1, 3, 4, 8, 9, 10’

Detailed Comments :

Structured Type Definition

Type Name : TPA

Encoding Variation :

Comments : TP address
GSM 03.40, 9.1.2.5

Element Name	Type Definition	Field Encoding	Comments
iel	LENGTH		Integer representation of useful semi−octets
tonnpi	TON_NPI		Type of number and numbering plan
digits	BCDN		BCD numbers

Detailed Comments :

Structured Type Definition

Type Name : TPDCS

Encoding Variation :

Comments : SMS data coding scheme
GSM 03.38, 4, 5

Element Name	Type Definition	Field Encoding	Comments
cg	BITSTRING [4]		coding group ’0000’ or ’1111’
code	BITSTRING [4]		usage of the bits 0−4

Detailed Comments : Identifying the coding scheme within the TP user data.

Structured Type Definition

Type Name : TPPID
Encoding Variation :
Comments : TP protocol identifier
GSM 03.40, 9.2.3.9

Element Name	Type Definition	Field Encoding	Comments
type	BITSTRING [2]		PID type
value	BITSTRING [6]		PID value

Detailed Comments :

Structured Type Definition

Type Name : TPST
Encoding Variation :
Comments : TP status
GSM 03.40, 9.2.3.15

Element Name	Type Definition	Field Encoding	Comments
sprb1	SPB		spare bit
value	BITSTRING [7]		status value/usage

Detailed Comments :

Structured Type Definition

Type Name : UNKWN
Encoding Variation :
Comments : unknown IE

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		
iel	LENGTH		
contents	OCTETSTRING		

Detailed Comments :

Structured Type Definition

Type Name : UU

Encoding Variation :

Comments : User−user
GSM 04.08, 10.5.4.25

Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		’01111110’B
iel	LENGTH		
uupd	BITSTRING [8]		user−user protocol discriminator
uui	OCTETSTRING [1..128]		user user information

Detailed Comments : In SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages the uui length is of 0 − 32 bytes.
In USER INFORMATION messages the uui length is of 1 − 128.

ASN.1 Type Definition

Type Name : Component

Encoding Variation :

Comments : ASN1_Encoding: BER

Type Definition

```
CHOICE {
  registerSSComponents                    RegisterSS_Components,
  eraseSSComponents                       EraseSS_Components,
  activateSSComponents                    ActivateSS_Components,
  deactivateSSComponents                  DeactivateSS_Components,
  interrogateSSComponents                 InterrogateSS_Components,
  notifySSComponents                      NotifySS_Components,
  registerPasswordComponents              RegisterPassword_Components,
  getPasswordComponents                   GetPassword_Components,
  processUnstructuredSSDataComponents     ProcessUnstructuredSSData_Components,
  forwardCheckSSIndicationComponents      ForwardCheckSSIndication_Components,
  processUnstructuredSSRequestComponents  ProcessUnstructuredSSRequest_Components,
  unstructuredSSRequestComponents         UnstructuredSSRequest_Components,
  unstructuredSSNotifyComponents          UnstructuredSSNotify_Components,
  forwardCUGInfoComponents                ForwardCUGInfo_Components,
  splitMPTYComponents                     SplitMPTY_Components,
  retrieveMPTYComponents                  RetrieveMPTY_Components,
  holdMPTYComponents                      HoldMPTY_Components,
  buildMPTYComponents                     BuildMPTY_Components,
  forwardChargeAdviceComponents           ForwardChargeAdvice_Components,
  generalComponents                       General_Components                    }
```

Detailed Comments : Plural components as each type represents invoke, return result, return error etc.

ASN.1 Type Definition

Type Name : Components
Encoding Variation :
Comments : GSM 04.80, 3.6

Type Definition

SET OF Component

Detailed Comments : ASN.1 transfer encoding rules:
BER is not wholy used for the type Components. The contents of Components, without the octets encoding the tag and the length of SET OF, is carried as the Components value.

ASN.1 Type Definition

Type Name : ActivateSS_Components
Encoding Variation :
Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    activateSS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    localValue                 INTEGER (12),
                    ss_ForBS                  SS_ForBS_Code },

    activateSS_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    result                    SEQUENCE {
                        localValue                    INTEGER (12),
                        ss_Info            SS_Info       }     } ,

    activateSS_ReturnErrorComp   CHOICE {
        errorCodes                    [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                              errorCode    ErrorLocalValues ( bearerServiceNotProvisioned
                                                                                  | teleserviceNotProvisioned
                                                                                  | illegalSS_Operation
                                                                                  | dataMissing
                                                                                  | unexpectedDataValue
                                                                                  | negativePW_Check
                                                                                  | numberOfPW_AttemptsViolation) },
        callBarredErr                  [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                               errorCode     ErrorLocalValues ( callBarred ),
                                                               parameter      CallBarringCause },
        ss_ErrorStatusErr             [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                                errorCode     ErrorLocalValues ( ss_ErrorStatus ),
                                                                parameter      SS_Status },
        ss_SubscriptionViolationeErr [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                              errorCode     ErrorLocalValues (ss_SubscriptionViolation),
                                                                 parameter      SS_SubscriptionOption },
        ss_IncompatibilityErr          [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                               errorCode     ErrorLocalValues ( ss_Incompatibility ),
                                                               parameter      SS_IncompatibilityCause },
        systemFailureErr               [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                               errorCode     ErrorLocalValues ( systemFailure ),
                                                               parameter      NetworkResource}   },

    activateSS_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m (15 − 30 s)

ASN.1 Type Definition

Type Name : BuildMPTY_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    buildMPTY_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    localValue               INTEGER (124)  },

    buildMPTY_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID               InvokeIDType,
                     result                 SEQUENCE {
                          localValue                INTEGER (124) }     } ,

    buildMPTY_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( illegalSS_Operation
                                                                         | ss_NotAvailable
                                                                         | maxNumberOfMPTY_ParticipantsExceeded
                                                                         | resourcesNotAvailable ) },
        ss_ErrorStatusErr           [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( ss_ErrorStatus ),
                                                            parameter     SS_Status },
        ss_IncompatibilityErr       [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( ss_Incompatibility ),
                                                            parameter     SS_IncompatibilityCause },
        systemFailureErr            [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( systemFailure ),
                                                            parameter     NetworkResource}   },

    buildMPTY_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer T_buildMPTY (5 − 30 s)

ASN.1 Type Definition

Type Name : DeactivateSS_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    deactivateSS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                 InvokeIDType,
                    localValue                INTEGER (13),
                    ss_ForBS                 SS_ForBS_Code },

    deactivateSS_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                InvokeIDType,
                     result                  SEQUENCE {
                          localValue                 INTEGER (13),
                          ss_Info            SS_Info       }     } ,

    deactivateSS_ReturnErrorComp   CHOICE {
        errorCodes                    [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                              errorCode    ErrorLocalValues ( bearerServiceNotProvisioned
                                                                                            | teleserviceNotProvisioned
                                                                                            | illegalSS_Operation
                                                                                            | dataMissing
                                                                                            | unexpectedDataValue
                                                                                            | negativePW_Check
                                                                                            | numberOfPW_AttemptsViolation) },
        callBarredErr                  [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                                errorCode     ErrorLocalValues ( callBarred ),
                                                                parameter      CallBarringCause },
        ss_ErrorStatusErr             [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                                 errorCode     ErrorLocalValues ( ss_ErrorStatus ),
                                                                 parameter      SS_Status },
        ss_SubscriptionViolationeErr [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                              errorCode     ErrorLocalValues (ss_SubscriptionViolation),
                                                                 parameter      SS_SubscriptionOption },
        systemFailureErr               [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                                errorCode     ErrorLocalValues ( systemFailure ),
                                                                parameter      NetworkResource}   },

    deactivateSS_RejectComp           [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : EraseSS_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    eraseSS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    localValue               INTEGER (11),
                    ss_ForBS                SS_ForBS_Code },

    eraseSS_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID               InvokeIDType,
                     result                 SEQUENCE {
                          localValue                INTEGER (11),
                          ss_Info           SS_Info    }          } ,

    eraseSS_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues (  bearerServiceNotProvisioned
                                                                                           | teleserviceNotProvisioned
                                                                                           | illegalSS_Operation
                                                                                           | dataMissing
                                                                                           | unexpectedDataValue ) },
        callBarredErr               [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( callBarred ),
                                                            parameter     CallBarringCause },
        ss_ErrorStatusErr           [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_ErrorStatus ),
                                                            parameter     SS_Status },
        systemFailureErr            [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( systemFailure ),
                                                            parameter     NetworkResource}   },


    eraseSS_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : ForwardChargeAdvice_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    forwardChargeAdvice_InvokeComp          [1] IMPLICIT SEQUENCE {
            invokeID                            InvokeIDType,
            localValue                           INTEGER (125),
            forwardChargeAdviceArg              SEQUENCE {
                    ss_Code                     [0] SS_Code,
                    chargingInformation     [1]  SEQUENCE{
                        e1      [1] INTEGER (0..max10TimesUnitsPerTime)                    OPTIONAL,
                        e2      [2]  INTEGER (0..max10TimesTimeInterval)                   OPTIONAL,
                        e3      [3]  INTEGER (0..max100TimesScalingFactor)                 OPTIONAL,
                        e4      [4] INTEGER (0..max10TimesIncrement)                       OPTIONAL,
                        e5      [5]  INTEGER (0..max10TimesIncrementPerDataInterval)    OPTIONAL,
                        e6      [6] INTEGER (0..maxNumberOfSegmentsPerDataInterval) OPTIONAL,
                        e7      [7]  INTEGER (0..max10TimesInitialTime)                    OPTIONAL } } },

    forwardChargeAdvice_ReturnResultComp  [2] IMPLICIT SEQUENCE {
            invokeID                InvokeIDType,
            result                  SEQUENCE {
            localValue               INTEGER (125)  }    } ,

    forwardChargeAdvice_RejectComp          [4] IMPLICIT RejectComponent        }
```

Detailed Comments : Timer T_aoc = 1 − 40 s

ASN.1 Type Definition

Type Name : ForwardCheckSSIndication_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    forwardCheckSSIndication_InvokeComp          [1] IMPLICIT SEQUENCE {
            invokeID                InvokeIDType,
            localValue               INTEGER (38)    },

    forwardCheckSSIndication_RejectComp          [4] IMPLICIT RejectComponent        }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ForwardCUGInfo_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    forwardCUGInfo_InvokeComp        [1] IMPLICIT SEQUENCE {
                    invokeID                 InvokeIDType,
                    localValue               INTEGER (120),
                    forwardCUGInfo_Arg           SEQUENCE{
                        cug_Index            [0]  IMPLICIT CUG_Index OPTIONAL,
                        suppressPrefCUG   [1]  IMPLICIT NULL         OPTIONAL,
                        suppressOA           [2]  IMPLICIT NULL         OPTIONAL } },

    forwardCUGInfo_RejectComp        [4] IMPLICIT RejectComponent       }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : General_Components

Encoding Variation :

Comments : Non specified components must match this type definition.

Type Definition

```
CHOICE {
  general_InvokeComp         [1] IMPLICIT General_InvokeComponent,
  general_ReturnResultComp [2] IMPLICIT General_ReturnResultComponent,
  general_ReturnErrorComp  [3] IMPLICIT General_ReturnErrorComponent,
  general_RejectComp         [4] IMPLICIT RejectComponent }


−− This is the General InvokeComponent −−
General_InvokeComponent ::= SEQUENCE {
  invokeID                 InvokeIDType,
  linked_ID      [0] IMPLICIT InvokeIDType OPTIONAL,
  operation_value            Operation,
  argument                 ANY     OPTIONAL }

−− This is the General ReturnResultComponent −−
General_ReturnResultComponent ::= SEQUENCE {
  invokeID       InvokeIDType,
  valueAndResult SEQUENCE {
                operation_value Operation,
                result         ANY     } OPTIONAL }

−− This is the General ReturnErrorComponent −−
General_ReturnErrorComponent ::= SEQUENCE {
  invokeID InvokeIDType,
  error    ANY }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : GetPassword_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    getPassword_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    linkedID                [0] IMPLICIT InvokeIDType,
                    localValue               INTEGER (18),
                    guidanceInfo             ENUMERATED {
                                                enterPW  (0),
                                                enterNewPW  (1),
                                                enterNewPW_Again  (2) } },

    getPassword_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                InvokeIDType,
                     result                  SEQUENCE {
                          localValue                 INTEGER (18),
                          currentPassword            Password }          } ,


    getPassword_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : HoldMPTY_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    holdMPTY_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    localValue               INTEGER (123)  },

    holdMPTY_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                InvokeIDType,
                     result                  SEQUENCE {
                          localValue                 INTEGER (123) }      } ,

    holdMPTY_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( illegalSS_Operation
                                                                                 | facilityNotSupported ) },
        ss_ErrorStatusErr           [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( ss_ErrorStatus ),
                                                            parameter     SS_Status },
        ss_IncompatibilityErr        [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( ss_Incompatibility ),
                                                            parameter     SS_IncompatibilityCause },
        systemFailureErr             [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( systemFailure ),
                                                            parameter     NetworkResource}   },

    holdMPTY_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer T_holdMPTY (5 − 30 s)

ASN.1 Type Definition

Type Name : InterrogateSS_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    interrogateSS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    localValue                 INTEGER (14),
                    ss_ForBS                  SS_ForBS_Code },

    interrogateSS_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                 InvokeIDType,
                     result                   SEQUENCE {
                          localValue                    INTEGER (14),
                          interrogateSS_Res          CHOICE {
                              ss_Status                 [0] IMPLICIT SS_Status,
                              basicServiceGroupList   [2] IMPLICIT BasicServiceGroupList,
                              forwardingFeatureList   [3] IMPLICIT ForwardingFeatureList,
                              cli_RestrictionInfo        [4] IMPLICIT SEQUENCE {
                                          ss_Status                SS_Status,
                                          cliRestrictionOption    CliRestrictionOption    OPTIONAL } } } } ,

    interrogateSS_ReturnErrorComp   CHOICE {
        errorCodes                    [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                              errorCode    ErrorLocalValues ( bearerServiceNotProvisioned
                                                                                            | teleserviceNotProvisioned
                                                                                            | illegalSS_Operation
                                                                                            | ss_NotAvailable
                                                                                            | dataMissing
                                                                                            | unexpectedDataValue) },
        callBarredErr                 [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                              errorCode     ErrorLocalValues ( callBarred ),
                                                              parameter      CallBarringCause },
        systemFailureErr              [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                              errorCode     ErrorLocalValues ( systemFailure ),
                                                              parameter      NetworkResource}   },


    interrogateSS_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : NotifySS_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    notifySS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                    InvokeIDType,
                    localValue                  INTEGER (16),
                    notifySS_Arg                SEQUENCE{
                        ss_Code                     [1] IMPLICIT SS_Code                        OPTIONAL,
                        ss_Status                   [4] IMPLICIT SS_Status                      OPTIONAL,
                        ss_Notification             [5] IMPLICIT OCTET STRING (SIZE (1)) OPTIONAL,
                        callIsWaiting_Indicator     [14] IMPLICIT NULL                          OPTIONAL,
                        callOnHold_Indicator        [15] IMPLICIT ENUMERATED {
                                                             callRetrieved (0),
                                                             callOnHold (1) }        OPTIONAL,
                        mpty_Indicator              [16] IMPLICIT NULL                          OPTIONAL,
                        cug_Index                   [17]  IMPLICIT CUG_Index                    OPTIONAL,
                        clirSuppressionRejected [18]  IMPLICIT NULL                             OPTIONAL }    },

    notifySS_RejectComp          [4] IMPLICIT RejectComponent        }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ProcessUnstructuredSSData_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    processUnstructuredSSData_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                    InvokeIDType,
                    localValue                  INTEGER (19),
                    ss_UserData                 SS_UserData },

    processUnstructuredSSData_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                    InvokeIDType,
                    result                      SEQUENCE {
                        localValue                  INTEGER (19),
                        ss_UserData                 SS_UserData   }  } ,

    processUnstructuredSSData_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues (unexpectedDataValue) },
        systemFailureErr            [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( systemFailure ),
                                                            parameter     NetworkResource}   },

    processUnstructuredSSData_RejectComp          [4] IMPLICIT RejectComponent        }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : ProcessUnstructuredSSRequest_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    processUnstructuredSSRequest_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    localValue                 INTEGER (59),
                    ussd_Arg                  USSD_Arg },

    processUnstructuredSSRequest_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                 InvokeIDType,
                     result                   SEQUENCE {
                          localValue                  INTEGER (59),
                          ussd_Res                    USSD_Res}          } ,

    processUnstructuredSSRequest_ReturnErrorComp   CHOICE {
        errorCodes                    [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                              errorCode    ErrorLocalValues (dataMissing
                                                                                  | unexpectedDataValue
                                                                                  | unknownAlphabet) },
        callBarredErr                 [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                              errorCode     ErrorLocalValues ( callBarred ),
                                                              parameter     CallBarringCause },
        systemFailureErr              [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                              errorCode     ErrorLocalValues ( systemFailure ),
                                                              parameter     NetworkResource}   },

    processUnstructuredSSRequest_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : RegisterPassword_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    registerPassword_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    localValue               INTEGER (17),
                    ss_Code                 SS_Code      },

    registerPassword_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    result                  SEQUENCE {
                        localValue                  INTEGER (17),
                        newPassword                 Password    }        } ,

    registerPassword_ReturnErrorComp   CHOICE {
        errorCodes                      [3] IMPLICIT SEQUENCE { invokeID    InvokeIDType,
                                                                errorCode     ErrorLocalValues ( dataMissing
                                                                                | unexpectedDataValue
                                                                                | negativePW_Check
                                                                                | numberOfPW_AttemptsViolation) },
        callBarredErr                   [3] IMPLICIT SEQUENCE { invokeID    InvokeIDType,
                                                                errorCode     ErrorLocalValues ( callBarred ),
                                                                parameter     CallBarringCause },
        ss_SubscriptionViolationeErr  [3] IMPLICIT SEQUENCE { invokeID    InvokeIDType,
                                                                errorCode     ErrorLocalValues
(ss_SubscriptionViolation),
                                                                parameter     SS_SubscriptionOption },
        systemFailureErr                [3] IMPLICIT SEQUENCE { invokeID    InvokeIDType,
                                                                errorCode     ErrorLocalValues ( systemFailure ),
                                                                parameter     NetworkResource},
        pw_RegistrationFailureErr       [3] IMPLICIT SEQUENCE { invokeID    InvokeIDType,
                                                                errorCode     ErrorLocalValues ( pw_RegistrationFailure ),
                                                                parameter     PW_RegistrationFailureCause }   },

    registerPassword_RejectComp      [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : RegisterSS_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    registerSS_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                    InvokeIDType,
                    localValue                  INTEGER (10),
                    registerSS_Arg              SEQUENCE{
                        ss_Code                     SS_Code,
                        basicService                BasicServiceCode        OPTIONAL,
                        forwardedToNumber           [4] IMPLICIT AddressString       OPTIONAL,
                        forwardedToSubaddress       [6] IMPLICIT ISDN_SubaddressString       OPTIONAL,
                        noReplyConditionTime        [5] IMPLICIT NoReplyConditionTime        OPTIONAL     }   },

    registerSS_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                    InvokeIDType,
                    result                      SEQUENCE {
                        localValue                  INTEGER (10),
                        ss_Info                     SS_Info         }        } ,

    registerSS_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( bearerServiceNotProvisioned
                                                                                 | teleserviceNotProvisioned
                                                                                 | illegalSS_Operation
                                                                                 | dataMissing
                                                                                 | unexpectedDataValue ) },
        callBarredErr               [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( callBarred ),
                                                            parameter      CallBarringCause },
        ss_IncompatibilityErr       [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_Incompatibility ),
                                                            parameter      SS_IncompatibilityCause },
        systemFailureErr            [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( systemFailure ),
                                                            parameter      NetworkResource}   },


    registerSS_RejectComp          [4] IMPLICIT RejectComponent        }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : RejectComponent

Encoding Variation :

Comments : ITU−T Q.767

Type Definition

```
SEQUENCE {
  invokedID CHOICE {
              derivable          InvokeIDType,
              notDerivable       NULL },
  problem   CHOICE {
              generalProblem        [0] IMPLICIT GeneralProblem,
              invokeProblem         [1] IMPLICIT InvokeProblem,
              returnResultProblem [2] IMPLICIT ReturnResultProblem,
              returnErrorProblem  [3] IMPLICIT ReturnErrorProblem } }
```

Detailed Comments : Reject Component is not specific to any particular operation. The invokeID may be used to identify a specific operation.

ASN.1 Type Definition

Type Name : RetrieveMPTY_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    retrieveMPTY_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                InvokeIDType,
                    localValue                INTEGER (122)  },

    retrieveMPTY_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID               InvokeIDType,
                     result                 SEQUENCE {
                          localValue                INTEGER (122) }      } ,

    retrieveMPTY_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( illegalSS_Operation
                                                                         | facilityNotSupported ) },
        ss_ErrorStatusErr           [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_ErrorStatus ),
                                                            parameter      SS_Status },
        ss_IncompatibilityErr        [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_Incompatibility ),
                                                            parameter      SS_IncompatibilityCause },
        systemFailureErr             [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode     ErrorLocalValues ( systemFailure ),
                                                            parameter      NetworkResource}   },

    retrieveMPTY_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer T_retrieveMPTY (5 − 30 s)

ASN.1 Type Definition

Type Name : SplitMPTY_Components

Encoding Variation :

Comments : GSM 04.80, 4.2

Type Definition

```
CHOICE {
    splitMPTY_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    localValue                 INTEGER (121)  },

    splitMPTY_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                     invokeID                InvokeIDType,
                     result                  SEQUENCE {
                          localValue                 INTEGER (121) }      } ,

    splitMPTY_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode    ErrorLocalValues ( illegalSS_Operation
                                                                         | facilityNotSupported ) },
        ss_ErrorStatusErr           [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_ErrorStatus ),
                                                            parameter      SS_Status },
        ss_IncompatibilityErr        [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( ss_Incompatibility ),
                                                            parameter      SS_IncompatibilityCause },
        systemFailureErr             [3] IMPLICIT SEQUENCE { invokeID       InvokeIDType,
                                                            errorCode     ErrorLocalValues ( systemFailure ),
                                                            parameter      NetworkResource}   },

    splitMPTY_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer T_splitMPTY (5 − 30 s)

ASN.1 Type Definition

Type Name : UnstructuredSSNotify_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    unstructuredSSNotify_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                 InvokeIDType,
                    localValue               INTEGER (61),
                    ussd_Arg                 USSD_Arg                 },

    unstructuredSSNotify_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                 InvokeIDType,
                    result                   SEQUENCE {
                        localValue                   INTEGER (61) }  } ,

    unstructuredSSNotify_ReturnErrorComp   CHOICE {
        errorCodes                   [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                             errorCode    ErrorLocalValues ( illegalSubscriber
                                                                                            | illegalEquipment
                                                                                            | absentSubscriber
                                                                                            | dataMissing
                                                                                            | unexpectedDataValue
                                                                                            | unknownAlphabet
                                                                                            | ussd_Busy) },
        systemFailureErr             [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                             errorCode    ErrorLocalValues ( systemFailure ),
                                                             parameter     NetworkResource}   },

    unstructuredSSNotify_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : UnstructuredSSRequest_Components

Encoding Variation :

Comments : GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7

Type Definition

```
CHOICE {
    unstructuredSSRequest_InvokeComp          [1] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    localValue                INTEGER (60),
                    ussd_Arg                  USSD_Arg                 },

    unstructuredSSRequest_ReturnResultComp  [2] IMPLICIT SEQUENCE {
                    invokeID                  InvokeIDType,
                    result                    SEQUENCE {
                        localValue                INTEGER (60),
                        ussd_Res                  USSD_Res      } } ,

    unstructuredSSRequest_ReturnErrorComp   CHOICE {
        errorCodes                  [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( illegalSubscriber
                                                                                          | illegalEquipment
                                                                                          | absentSubscriber
                                                                                          | dataMissing
                                                                                          | unexpectedDataValue
                                                                                          | unknownAlphabet
                                                                                          | ussd_Busy) },
        systemFailureErr            [3] IMPLICIT SEQUENCE { invokeID      InvokeIDType,
                                                            errorCode    ErrorLocalValues ( systemFailure ),
                                                            parameter     NetworkResource}   },

    unstructuredSSRequest_RejectComp          [4] IMPLICIT RejectComponent       }
```

Detailed Comments : Timer m

ASN.1 Type Definition

Type Name : AddressString

Encoding Variation :

Comments : GSM 09.02, 14.7.8

Type Definition

```
OCTET STRING (SIZE ( 1 .. maxAddressLength ))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : Asn1Integer

Encoding Variation :

Comments : INTEGER of ASN.1 type

Type Definition

```
INTEGER
```

Detailed Comments :

ASN.1 Type Definition

Type Name : BasicServiceCode
Encoding Variation :
Comments : GSM 09.02, 14.7.8

Type Definition

```
CHOICE {
    bearerService   [2] IMPLICIT BearerServiceCode,
    teleservice     [3] IMPLICIT TeleserviceCode      }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : BasicServiceGroupList
Encoding Variation :
Comments : GSM 09.02, 14.7.8

Type Definition

```
SEQUENCE SIZE ( 1 .. maxNumOfBasicServiceGroups ) OF BasicServiceCode
```

Detailed Comments :

ASN.1 Type Definition

Type Name : BearerServiceCode
Encoding Variation :
Comments : GSM 09.02, 14.7.10

Type Definition

```
OCTET STRING (SIZE (1))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CallBarringCause
Encoding Variation :
Comments : GSM 09.02, 14.7.7

Type Definition

```
ENUMERATED {
    barringServiceActive        (0),
    operatorBarring             (1) }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CallBarringFeature
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    basicService    BasicServiceCode      OPTIONAL,
    ss_Status       [4] IMPLICIT SS_Status          OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CallBarringFeatureList
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE SIZE (1..maxNumOfBasicServiceGroups) OF CallBarringFeature
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CallBarringInfo
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ss_Code                 SS_Code        OPTIONAL,
    callBarringFeatureList  CallBarringFeatureList        }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CliRestrictionOption
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
ENUMERATED {
    permanent                    (0),
    temporaryDefaultRestricted   (1),
    temporaryDefaultAllowed      (2) }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_Feature
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    basicService                BasicServiceCode        OPTIONAL,
    preferentialCUG_Indicator   CUG_Index               OPTIONAL,
    interCUG_Restrictions       InterCUG_Restrictions               }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_FeatureList
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE SIZE (1.. maxNumOfBasicServiceGroups ) OF CUG_Feature
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_Index
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
INTEGER (0..32767)
```

Detailed Comments : The internal structure is defined in ETS 300 138.

ASN.1 Type Definition

Type Name : CUG_Interlock
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
OCTET STRING (SIZE (4))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_Info

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    cug_SubscriptionList    CUG_SubscriptionList,
    cug_FeatureList         CUG_FeatureList   OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_Subscription

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    cug_Index                CUG_Index,
    cug_Interlock            CUG_Interlock,
    intraCUG_Options         IntraCUG_Options,
    basicServiceGroupList    BasicServiceGroupList   OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : CUG_SubscriptionList

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE SIZE (1.. maxNumOfCUG ) OF CUG_Subscription
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ErrorLocalValues

Encoding Variation :

Comments : GSM 04.80, 4.5

Type Definition

```
INTEGER {
  unknownSubscriber                          (1),
  illegalSubscriber                          (9),
  bearerServiceNotProvisioned               (10),
  teleserviceNotProvisioned                 (11),
  illegalEquipment                          (12),
  callBarred                                (13),
  illegalSS_Operation                       (16),
  ss_ErrorStatus                            (17),
  ss_NotAvailable                           (18),
  ss_SubscriptionViolation                  (19),
  ss_Incompatibility                        (20),
  facilityNotSupported                      (21),
  absentSubscriber                          (27),
  systemFailure                             (34),
  dataMissing                               (35),
  unexpectedDataValue                       (36),
  pw_RegistrationFailure                    (37),
  negativePW_Check                          (38),
  numberOfPW_AttemptsViolation              (43),
  unknownAlphabet                           (71),
  ussd_Busy                                 (72),
  maxNumberOfMPTY_ParticipantsExceeded     (126),
  resourcesNotAvailable                    (127)
 }
```

Detailed Comments : Elements of INTEGER are global for the ATS.

ASN.1 Type Definition

Type Name : ForwardingFeature

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    basicService              BasicServiceCode                  OPTIONAL,
    ss_Status                 [4] IMPLICIT SS_Status            OPTIONAL,
    forwardedToNumber         [5] IMPLICIT ISDN_AddressString   OPTIONAL,
    forwardedToSubaddress     [8] IMPLICIT ISDN_SubaddressString OPTIONAL,
    forwardingOptions         [6] IMPLICIT ForwardingOptions    OPTIONAL,
    noReplyConditionTime      [7] IMPLICIT NoReplyConditionTime OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ForwardingFeatureList
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE SIZE (1..maxNumOfBasicServiceGroups) OF ForwardingFeature
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ForwardingInfo
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ss_Code                 SS_Code         OPTIONAL,
    forwardingFeatureList   ForwardingFeatureList }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ForwardingOptions
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
OCTET STRING (SIZE (1))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : GeneralProblem
Encoding Variation :
Comments : ITU−T Q.767

Type Definition

```
TCAP_Problems ( unrecognizedComponent
              | mistypedComponent
              | badlyStructuredComponent )
```

Detailed Comments : Type restricted to these three.

ASN.1 Type Definition

Type Name : InterCUG_Restrictions
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

OCTET STRING (SIZE (1))

Detailed Comments : bits: 876543: 000000 (unused)
bits 21: 00 CUG only facilities
01 CUG with outgoing access
10 CUG with incoming access
11 CUG with both outgoing and incoming access

ASN.1 Type Definition

Type Name : IntraCUG_Options
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
ENUMERATED {
    noCUG_Restrictions  (0),
    cugIC_CallBarred  (1),
    cugOG_CallBarred  (2) }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : InvokeIDType
Encoding Variation :
Comments : ITU−T, Q.773

Type Definition

INTEGER (−128 .. 127)

Detailed Comments : Values:
Sending Components: If it is an invoke component then use Test Case Variable (with default) to set value. If another invoke component is sent the TCV should be incremented beforehand. If it is a return result, error or reject component in response to a received invoke component then use TCV also, making sure the value is set to the value of the received component beforehand.

Receiving Components: If it is an invoke comp then use '?'. If it is a return result, error or reject component in response to a sent invoke component then use TCV value (as used in sent invoke component).

ASN.1 Type Definition

Type Name : InvokeProblem
Encoding Variation :
Comments : ITU−T Q.767

Type Definition

```
TCAP_Problems ( duplicateInvokeID
          | unrecognizedOperation
          | mistypedArgument
          | resourceLimitation
          | initiatingRelease
          | unrecognizedLinkedID
          | linkedResponseUnexpected
          | unexpectedLinkedOperation )
```

Detailed Comments : Type restricted to these 8.

ASN.1 Type Definition

Type Name : ISDN_AddressString
Encoding Variation :
Comments : GSM 09.02, 14.7.8

Type Definition

```
AddressString (SIZE ( 1 .. maxISDN_AddressLength ))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ISDN_SubaddressString
Encoding Variation :
Comments : GSM 09.02, 14.7.8

Type Definition

```
OCTET STRING (SIZE ( 1 .. maxISDN_SubaddressLength ))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : NetworkResource
Encoding Variation :
Comments : GSM 09.02, 14.7.8,

Type Definition

```
ENUMERATED {
    plmn              (0),
    hlr               (1),
    vlr               (2),
    pvlr              (3),
    controllingMSC    (4),
    vmsc              (5),
    eir               (6),
    rss               (7)  }
```

Detailed Comments : Elements of INTEGER are global for the ATS.

ASN.1 Type Definition

Type Name : NoReplyConditionTime
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
INTEGER (5 .. 30 )
```

Detailed Comments :

ASN.1 Type Definition

Type Name : Operation
Encoding Variation :
Comments : ITU−T Q.767

Type Definition

```
CHOICE {
  localValue  INTEGER,
  globalValue OBJECT IDENTIFIER}
```

Detailed Comments :

ASN.1 Type Definition

Type Name : OverrideCategory
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
ENUMERATED {
    overrideEnabled   (0),
    overrideDisabled  (1) }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : Password
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
NumericString (FROM ("0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"))  (SIZE (4))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : PW_RegistrationFailureCause
Encoding Variation :
Comments : GSM 09.02, 14.7.7

Type Definition

```
ENUMERATED {
    undetermined            (0),
    invalidFormat           (1),
    newPasswordsMismatch    (2) }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : ReturnErrorProblem
Encoding Variation :
Comments : ITU−T Q.767

Type Definition

```
TCAP_Problems ( unrecognizedInvokeID
        | returnErrorUnexpected
        | unrecognizedError
        | unexpectedError
        | mistypedParameter )
```

Detailed Comments : Type restricted to these 5.

ASN.1 Type Definition

Type Name : ReturnResultProblem
Encoding Variation :
Comments : ITU−T Q.767

Type Definition

```
TCAP_Problems ( unrecognizedInvokeID
        | returnResultUnexpected
        | mistypedResult )
```

Detailed Comments : Type restricted to these three.

ASN.1 Type Definition

Type Name : SS_Code
Encoding Variation :
Comments : GSM 09.02, 14.7.5

Type Definition

```
OCTET STRING (SIZE (1))
```

Detailed Comments : group (bits 8765), and specific service (bits 4321)

ASN.1 Type Definition

Type Name : SS_Data
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ss_Code                 SS_Code                 OPTIONAL,
    ss_Status               [4] IMPLICIT SS_Status          OPTIONAL,
    ss_SubscriptionOption   SS_SubscriptionOption   OPTIONAL,
    basicServiceGroupList   BasicServiceGroupList   OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : SS_ForBS_Code
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ss_Code         SS_Code,
    basicService    BasicServiceCode        OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : SS_IncompatibilityCause
Encoding Variation :
Comments : GSM 09.02, 14.7.8

Type Definition

```
SEQUENCE {
    ss_Code         [1] IMPLICIT SS_Code OPTIONAL,
    basicService    BasicServiceCode        OPTIONAL,
    ss_Status       [4] SS_Status           OPTIONAL }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : SS_Info
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
CHOICE {
    forwardingInfo  [0] IMPLICIT ForwardingInfo,
    callBarringInfo  [1] IMPLICIT CallBarringInfo,
    cug_Info        [2] IMPLICIT CUG_Info,
    ss_Data         [3] IMPLICIT SS_Data        }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : SS_Status
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

OCTET STRING (SIZE (1))

Detailed Comments : bits 8765: 0000 unused,
bits 4: SS state information Q bit,
bits 3: SS state information P bit,
bits 2: SS state information R bit,
bits 1: SS state information A bit.

ASN.1 Type Definition

Type Name : SS_SubscriptionOption
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

```
CHOICE {
    overrideCategory       [1] IMPLICIT OverrideCategory,
    cliRestrictionOption   [2] IMPLICIT CliRestrictionOption }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : SS_UserData
Encoding Variation :
Comments : GSM 09.02, 14.7.4

Type Definition

IA5String (SIZE (1 .. maxSignalInfoLength))

Detailed Comments :

ASN.1 Type Definition

Type Name : TCAP_Problems

Encoding Variation :

Comments : ITU−T Q.767

Type Definition

```
INTEGER {
  unrecognizedComponent      (0),   −− GeneralProblem
  unrecognizedInvokeID       (0),   −− ReturnResultProblem, ReturnErrorProblem
  duplicateInvokeID          (0),   −− InvokeProblem
  mistypedComponent          (1),   −− GeneralProblem
  returnErrorUnexpected      (1),   −− ReturnErrorProblem
  returnResultUnexpected     (1),   −− ReturnResultProblem
  unrecognizedOperation      (1),   −− InvokeProblem
  badlyStructuredComponent   (2),   −− GeneralProblem
  unrecognizedError          (2),   −− ReturnErrorProblem
  mistypedArgument           (2),   −− InvokeProblem, originally called mistypedParameter in TCAP
  mistypedResult             (2),   −− ReturnResultProblem
  resourceLimitation         (3),   −− InvokeProblem
  unexpectedError            (3),   −− ReturnErrorProblem
  mistypedParameter          (4),   −− ReturnErrorProblem
  initiatingRelease          (4),   −− InvokeProblem
  unrecognizedLinkedID       (5),   −− InvokeProblem
  linkedResponseUnexpected   (6),   −− InvokeProblem
  unexpectedLinkedOperation  (7)    −− InvokeProblem
  }
```

Detailed Comments : Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

ASN.1 Type Definition

Type Name : TeleserviceCode

Encoding Variation :

Comments : GSM 09.02, 14.7.9

Type Definition

```
OCTET STRING (SIZE (1))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : USSD_Arg

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ussd_DataCodingScheme    USSD_DataCodingScheme,
    ussd_String              USSD_String }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : USSD_Res

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
SEQUENCE {
    ussd_DataCodingScheme    USSD_DataCodingScheme,
    ussd_String              USSD_String }
```

Detailed Comments :

ASN.1 Type Definition

Type Name : USSD_DataCodingScheme

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
OCTET STRING (SIZE (1))
```

Detailed Comments :

ASN.1 Type Definition

Type Name : USSD_String

Encoding Variation :

Comments : GSM 09.02, 14.7.4

Type Definition

```
OCTET STRING (SIZE (1..maxUSSD_StringLength))
```

Detailed Comments : The structure of the contents of the USSD−String is dependent on the USSD−DataCodingScheme as described in TS GSM03.38.

Test Suite Operation Definition

Operation Name : OC_Asn1intToOct(n : Asn1Integer; l: INTEGER)
Result Type : OCTETSTRING
Comments :

Description

OC_Asn1intToOct converts the ASN.1 INTEGER ‘n‘ into OCTETSTRING with length = ‘l‘.

for example:

OC_Asn1intToOct(14,1) = ’0E’O;
OC_Asn1intToOct(18,1) = ’12’O;
OC_Asn1intToOct(18,2) = ’0012’O;
OC_Asn1intToOct(−128,1) = ’80’O (MSB (position p out of 1...p) represents −2exp(p−1));
OC_Asn1intToOct(−32768,2) = ’8000’O (MSB (position p out of 1...p) represents −2exp(p−1)).

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_Bcap(setup : SETUP_MO_PDU; callproc : CALL_PROC_PDU; mem : INTEGER)
Result Type : BCAP
Comments :

Description

OC_Bcap operation returns a bearer capability IE according the following rule:

− for ‘mem‘ = 1:
  − if bearer capability IE were presented in ‘callproc‘ the returned BC is the bearer capability 1 of the ‘callproc‘;
  − otherwise, the returned bearer capability is the bearer capability 1 of the ‘setup‘.

− for ‘mem‘ = 2:
  − if bearer capability IE were presented in ‘callproc‘ the returned BC is the bearer capability 2 of the ‘callproc‘;
  − otherwise, the returned bearer capability is the bearer capability 2 of the ‘setup‘.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_BinAdd(bitstr1 : BITSTRING; bitstr2 : BITSTRING)
Result Type : BITSTRING
Comments :

Description

OC_BinAdd operation performs binary addition of two input parameters ‘bitstr1‘ and ‘bitstr2‘, then returns the result of the addition. These two input parameters shall have the same length, the result of the operation has the same length as the input parameters.

for example:

OC_BinAdd(’01000’B, ’00110’B) = ’01110’B;
OC_BinAdd(’01000’B, ’00011’B) = ’01011’B;
OC_BinAdd(’00100’B, ’00010’B) = ’00110’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_Bit7(bstring: B_8)
Result Type : BITSTRING
Comments : The input parameter bstring is of type BITSTRING[8].

Description

OC_Bit7(bstring) returns the value of bit 7 in the ‘bstring‘.

for example:

OC_Bit7(’01010101’B) = ’1’B,
OC_Bit7(’10101010’B) = ’0’B

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_BCDtoInt(bcdstring:HEXSTRING; relevant_digits: INTEGER)
Result Type : INTEGER
Comments :

Description

The operation OC_BCDtoInt converts last ’relevant_digits’ of an HEXSTRING containing BCD coded digits to an integer representation of these relevant digits.

Example: OC_BCDtoInt(’12345’H, 3) := 345

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_CalledNumCHK(callednum : OCTETSTRING; dialnum : IA5String)
Result Type : BOOLEAN
Comments :

Description

the operation OC_CalledNumCHK to check whether the called party number ‘callednum‘, which is represented by OCTETSTRING, is the same as the dialed number ’dialnum‘, which is represented by IA5String. It returns TRUE if they are the same, otherwise FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_ChkSRES(sres : OCTETSTRING; ki: BITSTRING; rand : BITSTRING)

Result Type : BOOLEAN

Comments : sres is 32 bits value.

Description

OC_ChkSRES checks the input parameter ‘sres‘ according to the authentication algorithm defined in the following procedure. It returns TRUE if the ‘sres‘ is correct, otherwise it returns FALSE.

- firstly the ‘ki‘ XOR to the ‘rand‘ results in RES1;
- then compare the most significant 32 bits of the RES1 with the ‘sres‘;
- if they are equal, the ‘sres‘ is correct and the operation returns TRUE;
- if they are not equal, the ‘sres‘ is wrong and the operation returns FALSE.

NOTE: this procedure is the test algorithm for authentication defined by GSM.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_CnvtMax(max : INTEGER)

Result Type : B_2

Comments :

Description

The allowed integer values for max are 1, 2, 4, 7 (maximum number of retransmissions). The result BITSTRING is 2 bits long. OC_CnvtMax converts the input integer ‘max‘ into a BITSTRING according to the following rule:

1. the result is ’00’B if the ‘max‘ = 1,
2. the result is ’01’B if the ‘max‘ = 2,
3. the result is ’10’B if the ‘max‘ = 4,
4. the result is ’11’B if the ‘max‘ = 7.

for example:

OC_CnvtMax(1) = ’00’B,
OC_CvntMax(7) = ’11’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_CnvtTx(tx : INTEGER)

Result Type : B_4

Comments : The result BITSTRING is 4 bits long.

Description

OC_CnvtTx converts the input integer ‘tx‘ into a BITSTRING according the following rule:

1. the result is ’0000’B if the ‘tx‘ = 3,
2. the result is ’0001’B if the ‘tx‘ = 4,
3. the result is ’0010’B if the ‘tx‘ = 5,
4. the result is ’0011’B if the ‘tx‘ = 6,
5. the result is ’0100’B if the ‘tx‘ = 7,
6. the result is ’0101’B if the ‘tx‘ = 8,
7. the result is ’0110’B if the ‘tx‘ = 9,
8 . the result is ’0111’B if the ‘tx‘ = 10,
9. the result is ’1000’B if the ‘tx‘ = 11,
10. the result is ’1001’B if the ‘tx‘ = 12,
11. the result is ’1010’B if the ‘tx‘ = 14,
12. the result is ’1011’B if the ‘tx‘ = 16,
13. the result is ’1100’B if the ‘tx‘ = 20,
14. the result is ’1101’B if the ‘tx‘ = 25,
15. the result is ’1110’B if the ‘tx‘ = 32,
16. the result is ’1111’B if the ‘tx‘ = 50.

for example:

OC_CnvtTx(3) = ’0000’B,
OC_CvntTx(5) = ’0010’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_CodeSMSCBMessage(firstoct: INTEGER; lastoct: INTEGER)

Result Type : OCTETSTRING

Comments :

Description

The operation codes a part of the contents for a cell broadcast short message. The cell broadcast short message, is 82 octets long, i.e. 93 characters, each represented by 7 bits. As many as possible different characters are sent, the characters are those corresponding to the 7−bit representation of the integers 0, 1, 2, ..., 92. The bits are arranged acc. to GSM 03.38, clause 6.1.2.1.1. The result of this operation is the octetstring of the octets ’firstoct’ to ’lastoct’ (16 octets for the first message block, 22 octets for the 2nd, 3rd and 4th blocks), with the octets of the cell broadcast short message being numbered from 1 to 82.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_CodingOfUssdString(text: IA5String)

Result Type : OCTETSTRING

Comments :

Description

This operation provides the coding for a USSD String ’text’ in the default alpabet, each character represented by 7 bits. The bits are arranged acc. to GSM 03.38, clause 6.1.2.2.1.

Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_ComputeSMContents(NumberOfCharacters: INTEGER)
Result Type	: OCTETSTRING
Comments	: max. 160 characters, i.e. 140 octets.
Description	
This operation provides a short message's contents with a specified number of characters 'NumberOfCharacters', each represented by 7 bits. As possible different characters are sent, the characters are those corresponding to the 7−bit representation of 0, 1, 2, ... up to ('NumberOfCharacters' − 1). If more than 128 characters are sent, the rest of the characters is the corresponding to 0, 1, ... up to (NumberOfCharacters − 128 − 1), e.g. for 160 characters: 0, 1, ..., 127, 0, 1, ..., 31. The bits are arranged acc. to GSM 03.38, clause 6.1.2.1.1.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OC_ComputeSMContentsSpecText(NumbOfIA5chara: INTEGER; text: IA5String)
Result Type	: OCTETSTRING
Comments	: max. 160 characters, i.e. 140 octets.
Description	
This operation provides a short message's contents with a specified number of characters 'NumbOfIA5chara', each represented by 7 bits. 'text' is used as contents of the short message. If "text' contains less than 'NumberOfCharacters' characters, 'text' is repeated until the short message reaches the 'NumberOfCharacters' characters long. The bits packing is arranged according. to GSM 03.38, clause 6.1.2.1.1.	
Detailed Comments	:

Test Suite Operation Definition	
Operation Name	: OC_CphKeyGen(ki : BITSTRING; rand : BITSTRING)
Result Type	: BITSTRING
Comments	: both ki and rand are 128 bits values, the result of the operation is 64 bits value
Description	
OC_CphKeyGen generates the ciphering key from the input parameters according to the following procedure: − firstly the 'ki' XOR to the 'rand' results in RES1; − then discard the most significant 32 bits of the RES; − the next 64 bits of RES1 are the ciphering key, the operation returns this value. − the 32 least singnificant bits are not used.	
Detailed Comments	:

Test Suite Operation Definition

Operation Name : OC_FirstDigi(bcddigits : HEXSTRING)

Result Type : B_4

Comments :

Description

The input parameter bcddigits shall be a BCD string (subset of HEXSTRING), the resut is a BITSTRING[4] of a binary representation of one BCD digit.
The function of the OC_FirstDigi is to return the first (most significant) digit of the input parameter ‘bcddigits‘.

for example:

OC_FirstDigi(’12345’) = ’0001’B,
OC_FirstDigi(’012345678’) = ’0000’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_FnInc(fn : FN; inc : INTEGER)

Result Type : FN

Comments :

Description

The function of OC_FnInc operation to increase frame number with ‘inc‘. The frame number to be incremented is the input parameter ‘fn‘ in FN type and the increment ‘inc‘ is in INTEGER type, the incremented frame number is returned in FN type.

```
OC_FnInc(fn, inc)
FN     fn;
INTEGER  inc;
{
int     fmrin;
FN    frmout;

    frmin = 51 * ((fn.t3 − fn.t2) MOD 26) + fn.t3 + 1326 * fn.t1_ ;

    frmout.t1_ = ((frmin + inc) DIV 1326) MOD 32;
    frmout.t2   = (frmin + inc) MOD 26;
    frmout.t3   = (frmin + inc) MOD 51;
    return (frmout);
}
```

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_GetSCTimeStamp(timezone : TZONES)
Result Type : TPSCTS
Comments : TPSCTS is HEXSTRING[14]

Description

This Operation provides the hexstring containing the service center time stamp (SCTS) according to GSM 03.40, 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 conbination with the input parameter 'timezone' into a service center time stamp.
Example:
1996 April 18, 15:32:46, timezone=4
OC_GetSCTimeStamp returns 69408151236440

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_IncTmsi(tmsi : TMSI_V; inc : OCTETSTRING)
Result Type : TMSI_V
Comments : the 'tmsi' is 4 OCTETs long

Description

OC_IncTmsi operation adds the two input parameters and returns the result. An overflow of addition is allowed.

For example :

OC_IncTmsi('33542140'O + '01'O) = '33542141'O;
OC_IncTmsi('21322140'O + '08'O) = '21322148'O.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_InRang(tx: INTEGER; maxret : INTEGER; m: INTEGER)
Result Type : BOOLEAN
Comments :

Description

The operation returns TRUE if (m DIV (maxret * ((230+maxret −1)/maxret))) is inside the following interval:
[0.8 − ((tx+1)/2) DIV tx; 1.2 − ((tx+1)/2) DIV tx]

where / is integer division, DIV is float division, m, tx and maxret are input parameters of the operation.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_IntToOct(n : INTEGER; l: INTEGER)
Result Type : OCTETSTRING
Comments :

Description

OC_IntToOct converts the INTEGER ‘n‘ into OCTETSTRING with length = ‘l‘.

for example:

OC_IntToOct(14,1) = ’0E’O;
OC_IntToOct(18,1) = ’12’O;
OC_IntToOct(18,2) = ’0012’O.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_LeastBits(bstring : BITSTRING; lg : INTEGER)
Result Type : BITSTRING
Comments :

Description

OC_LeastBits operation returns the ‘lg‘ least significant bits of the original ‘bstring‘.

for example:

OC_LeastBits(’110011000101010’B, 3) = ’010’B,
OC_LeastBits(’110011000101010’B, 6) = ’101010’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_LengthOf(identity_field :MI)
Result Type : INTEGER
Comments :

Description

OC_LengthOf operation returns the actual length of the ‘identity_field‘, the unit of length is in OCTET.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_LengthOfBCDN(bcdn :BCDN)
Result Type : INTEGER
Comments :

Description

OC_LengthOfBCDN operation returns the actual length of an IE of type BCDN ’bcdn’, the unit of length is in OCTET.

Detailed Comments :

Test Suite Operation Definition	
Operation Name :	OC_LengthOfComp(comp: Component_T)
Result Type :	LENGTH
Comments :	
Description	
OC_LengthOfComp operation returns the actual length of the Component_T ‘comp‘, the unit of length is in OCTET.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OC_LengthOfOct(oct: OCTETSTRING)
Result Type :	INTEGER
Comments :	
Description	
OC_LengthOfOct operation returns the number of octets in the octetstring ‘oct‘.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OC_LengthOfString(strg: IA5String)
Result Type :	INTEGER
Comments :	
Description	
OC_LengthOfString operation returns the actual length (number of characters) of the string ‘strg‘.	
Detailed Comments :	

Test Suite Operation Definition

Operation Name : OC_LookupS(t: INTEGER; combined :BOOLEAN)

Result Type : INTEGER

Comments : the algorithm is derived from Table 3.1/GSM 04.08 for values of parameter S.

Description

This operation returns an INTEGER according the following algorithm:

```
OC_LookupS( t, comb)
INTEGER t;
BOOLEAN combined;
{
    switch (t)
        {  case 3:
           case 8:
           case 14:
           case 50:
              if (combined) then
                      return(41)
                 else   return(55);
              break;
            case 4:
            case 9:
            case 16:
                if (combined) then
                        return(52)
                   else  return(76);
                break;
            case 5:
            case 10:
            case 20:
                if (combined) then
                        return(58)
                   else  return(109);
                break;
            case 6:
            case 11:
            case 25:
                if (combined) then
                        return(86)
                   else  return(163);
                break;
            case 7:
            case 12:
            case 32:
                if (combined) then
                        return(115)
                   else  return(217);
                break;
      }
}
```

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_ModifyBcap(bcap:BCAP; list_indicator:INTEGER)
Result Type : BCAP
Comments :

Description

Using the following lists

modem_list = ('00011'B, '00111'B)
transparent_list = ('00'B, '10'B, '11'B)
non_transparent_list ('01'B, '10'B, '11'B)

OC_ModifyBcap operation returns a bearer capability IE modified from the input IE according the following rule:

− for 'list_indicator' =C_modemt_ce:
  − copy the IE unchanged.

− for 'list_indicator' = C_modemt_Tlist:
  − replace the 'ce' value with the list 'transparent_list'

− for 'list_indicator' = C_modemt_NTlist:
  − replace the 'ce' value with the list 'non_transparent_list'

− for 'list_indicator' =C_modemList_ce:
  − replace the 'modemt' value with the list 'modem_list'.

− for 'list_indicator' = C_modemList_Tlist:
  − replace the 'modemt' value with the list 'modem_list',
  and replace the 'ce' value with the list 'transparent_list'

− for 'list_indicator' = C_modemList_NTlist:
  − replace the 'modemt' value with the list 'modem_list',
  and replace the 'ce' value with the list 'non_transparent_list'

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_MostBits(bstring : BITSTRING; lg :INTEGER)
Result Type : BITSTRING
Comments :

Description

OC_MostBits operation returns the 'lg' most significant bits of the original 'bstring'.

for example:

OC_LeastBits('110011000101010'B, 3) = '110'B,
OC_LeastBits('110011000101010'B, 6) = '110011'B.

Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_MsrReptChk(msrres: MSRR; index : INTEGER)
Result Type	: BOOLEAN
Comments	: parameter index is used for selecting different match pattern

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Test Suite Operation Definition

Description

OC_MsrReptChk operation checks whether the received measurement report contains correct values:

1. when the ‘index‘ = 1:
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
   }
   equals to
   set { {’00000’B, ’001011’B}, {’01111’B, ’001001’B},
   {’10101’B, ’001011’B}, {’10110’B, ’001101’B},
   {’11100’B, ’001111’B}, {’11111’B, ’001001’B}
   }
   then the operation returns TRUE otherwise FALSE.

2. when the ‘index‘ = 2:
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
   }
   equals to
   set { {’00000’B, ’001011’B}, {’00100’B, ’001001’B},
   {’00110’B, ’001011’B}, {’00101’B, ’001101’B},
   {’00010’B, ’001111’B}, {’00111’B, ’001001’B}
   }
   then the operation returns TRUE otherwise FALSE.

3. when the ‘index‘ = 3:
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
   }
   equals to
   set { {’00001’B, ’001011’B}, {’00101’B, ’001001’B},
   {’00111’B, ’001011’B}, {’00110’B, ’001101’B},
   {’00011’B, ’001111’B}, {’01000’B, ’001001’B}
   }
   then the operation returns TRUE otherwise FALSE.

4. when the ‘index‘ = 4 :
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   }
   equals to
   set { {’00000’B, ’001011’B}, {’00010’B, ’001111’B},
   {’00001’B, ’001111’B}, {’00011’B, ’001001’B}
   }
   then the operation returns TRUE otherwise FALSE.

5. when the ‘index‘ = 5 :
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   }
   equals to
   set { {’00000’B, ’001011’B}, {’00010’B, ’001111’B},
   {’00001’B, ’001111’B}, {’00100’B, ’001001’B}
   }
   then the operation returns TRUE otherwise FALSE.

6. when the ‘index‘ = 6:
   if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2},
   { msrres.bcchfrq_nc3, msrres.bsic_nc3}, { msrres.bcchfrq_nc4, msrres.bsic_nc4},
   { msrres.bcchfrq_nc5, msrres.bsic_nc5}, { msrres.bcchfrq_nc6, msrres.bsic_nc6}
   }
   equals to
   set { {’00000’B, ’001011’B}, {’00011’B, ’001001’B},
   {’00100’B, ’001011’B}, {’00101’B, ’001101’B},
   {’00110’B, ’001111’B}, {’00111’B, ’001001’B}
   }

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Test Suite Operation Definition

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_OeBit(bcddigits : HEXSTRING)

Result Type : BITSTRING

Comments : The input parameter ‘bcddigits‘ is really BCD string (subset of HEXSTRING), the result is BITSTRING[1].

Description

The function of the OC_OeBit is as the following:

1. it returns ’1’B, if the length of the ‘bcddigits‘ is odd,
2. it returns ’0’B, if the length of the ‘bcddigits‘ is even.

for example:

OC_OeBit(’12583’) = ’1’B,
OC_OeBit(‘87259957’) =’0’B.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_OctToInt(ostr: OCTETSTRING)

Result Type : INTEGER

Comments :

Description

OC_OctToInt converts the OCTETSTRING ‘ostr‘ into INTEGER.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_OctToInvokeIDType(o : OCTETSTRING)

Result Type : InvokeIDType

Comments :

Description

OC_OctToInvokeIDType converts the OCTETSTRING ‘o‘ into InvokeIDType, with the MSB of ’o’ representing the negative value −2exp(n−1), for example ’80’O−>’10000000’B−> −128. The rest of the bits can code positive values up to +2exp(n−2)−1, for example ’4F’O−>’01111111’B−> +127.

for example:

OC_OctToInvokeIDType(’80’O) = −128;
OC_OctToInvokeIDType(’81’O) = −128+1 = −127;
OC_OctToInvokeIDType(’40’O) = +64.
OC_OctToInvokeIDType(’7F’O) = +127.
OC_OctToInvokeIDType(’C0’O) = −128+64 = −64.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_OtherDigi(bcddigits : HEXSTRING)

Result Type : OCTETSTRING

Comments : The input parameter‘ bcddigits‘ is really BCD string (subset of HEXSTRING), the result is an even BCD digits except that the next to last may either be ’F’H or a BCD digit.

Description

The function of the OC_OtherDigi is as the following:

1. If the number of the ‘bcddigits‘ is odd, the operation removes the most significant digit, and then reverses the order of each pair of digits;
2. If the number of the ‘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.

for example:

OC_OtherDigi(’12345’) = ’3254’,
OC_OtherDigi(’12345678’) =’325476F8’.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_PosinSet(set: Components; comp: Component)

Result Type : INTEGER

Comments :

Description

The operation OC_PosinSet returns the position of component ‘comp‘ within the SET ‘set‘.

for example:

if the set = { registerSSComponents, eraseSSComponents, activateSSComponents, deactivateSSComponents }

OC_PosinSet(set, registerSSComponents) = 0,
OC_PosinSet(set, activateSSComponents) = 2.

Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_RachSlots(fn1 : FN; fn2 : FN; cmbn: BOOLEAN; mode : INTEGER)
Result Type	: INTEGER
Comments	:

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Test Suite Operation Definition

Description

OC_RachSlots calculates the number of RACH slots between frame number ‘fn1‘ and ‘fn2‘ excluding the slots in ‘fn1‘ and ‘fn2‘, then return the result of the calculation.
If mode=0, ’fn1’ denotes the (first) frame number for sending Paging Request, while ’fn2’ denotes the (first) frame number for the received Channel Request. If mode=1 ’fn1’ and ’fn2’ denote the (first) frame number for the received two subsequent Channel Requests. Any other values for mode is not allowed.
Since the number of RACH slots depends on the RACH being combined or not with dedicated channels, the parameter ’cmbn’ is needed: TRUE −−> combined, FALSE−−> not combined.
It is assumed that the distance between fn1 and fn2 is not more than one group of 42432 TDMA frames (modulo 42432 is used to calculate t1’ of fn1 and fn2). This is equivalent to approximately 196 seconds. The 51 TDMA frames in a multiframe are numbered 0 to 50.
fn1’ := fn1 mod 51
fn2’ := fn2 mod 51

CASE 1: cmbn is FALSE (’not combined’)
When ’not combined’, all slots are RACH slots.

1.1 mode=0 (sending paging message at fn1)
The paging uses the numbered frames 6 − 9, 12 −19, 22−29, 32−39 and 42−49.

1.1.1 If fn1 is not in the paging TDMA frame mapping, it leads testing to a test system error.
IF (fn1’ < 6) OR (9 < fn1’ < 12) OR (19 < fn1’ < 22) OR (29 < fn1’ < 32) OR (39 < fn1’ < 42) OR (fn1’ >49),
A test system error! The calling test case shall re−run again.
OTHERWISE

1.1.2 The number of RACH slots is equal to the number of frames between fn1 + 3 and fn2. The fn1 is added by 3 because a page message occupies 4 slots. The fn1 indicates the first slot of the paging message.
IF (fn1 + 3) < fn2, OC_RachSlots := fn2 − (fn1 + 3) −1 = fn2 − fn1 − 4,

1.1.3 If fn1+3 is equal to or greater than fn2, then this is due to fn2 being in the next group of 42432 frames. In this case 42432 frames have to be added.
IF fn2 <= (fn1 + 3), OC_RachSlots := fn2 −fn1 − 3 + 42432 −1 = fn2 −fn1 + 42428

1.2 mode=1 (receiving channel request at fn1)
The number of RACH slots is equal to the number of frames between fn1 and fn2

1.2.1 IF fn1 < fn2, OC_RachSlots := fn2 − fn1 − 1,
1.2.2 IF fn2 <= fn1, OC_RachSlots := fn2 −fn1 + 42432 −1 = fn2 −fn1 + 42431

CASE 2: cmbn is TRUE (’combined’)
When combined only the slots of the numbered frames 4, 5, 14 to 36, 45 and 46 in each multiframe are RACH slots, i.e.total 27 frames per multiframe.

2.1 mode=0 (sending paging message at fn1)
The paging uses the numbered frames 6 − 9 and 12 −19.

2.1.1 If fn1 is not in the paging TDMA frame mapping, it leads testing to a test system error. If fn2 is not in the RACH TDMA frame mapping, it leads testing to fail.

IF (fn2‘ < 4) OR (5 < fn2‘ < 14) OR (36 < fn2‘ < 45) OR (fn2’ > 46), OC_RachSlots := −9999
IF (fn1’ < 6) OR (9 < fn1’ < 12) OR (fn1’ >19), A test system error! The calling test case shall re−run again.
OTHERWISE

2.1.2 Calculation of the number ’c’ multiframes between fn1 + 3 and fn2. If fn1 + 3 is equal to or greater than fn2, then this is due to fn2 being in the next group of 42432 frames. In this case 42432 frames have to be added. ’/’ shall be the integer division, i.e. the result is also integer. Fractions are discarded.

2.1.2.1 IF (fn1 + 3) < fn2, c := fn2 / 51 − (fn1 + 3) / 51
2.1.2.2 IF fn2 <= (fn1 + 3), c := fn2 / 51 − (fn1 + 3) / 51 + 42432 / 51 = fn2 / 51 − (fn1 + 3) / 51 + 832

2.1.3 Calculation of the number of frames ’a’ to be subtracted according to the position of fn1’ within the multiframe
IF (5 < fn1‘ < 9) , a := 2
IF (fn1‘ =9), a := 3
IF (11<fn1‘ <20), a := fn1’−8

2.2 mode=1 (receiving channel request at fn1)

2.2.1 If fn1 or fn2 are not in the RACH TDMA frame mapping, it leads testing to fail.
IF (fn2‘ < 4) OR (5 < fn2‘ < 14) OR (36 < fn2‘ < 45) OR (fn2’ > 46)
OR (fn1’ < 6) OR (9 < fn1’ < 12) OR (fn1’ >19), OC_RachSlots := −9999

2.2.2 Calculation of the number ’c’ multiframes between fn1 and fn2

Continued from previous page

Test Suite Operation Definition
Detailed Comments : TC_26_2_1_1 uses mode=0. TC_26_2_1_2 uses mode=1.

Test Suite Operation Definition
Operation Name : OC_Random(n1 : INTEGER; n2 : INTEGER) **Result Type** : INTEGER **Comments** :
Description
This operation randomly returns one number from the following candidates: 'n1', 'n1'+1, ..., 'n2'
Detailed Comments :

Test Suite Operation Definition
Operation Name : OC_RcsdPresent(msg : MODIFY_PDU) **Result Type** : BOOLEAN **Comments** : To check if RCSD IE is present or not in Modify PDU
Description
IF RCSD IE is present in the PDU passed on input paremeter return TRUE ELSE return FALSE.
Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_SaveAndProc1(val : INTEGER; mode :INTEGER; cnt : INTEGER; cmbnd : BOOLEAN)

Result Type : BOOLEAN

Comments : This operation is used for storing and analysing the CHANNEL REQUEST message distribution.

Description

The function of this operation is defined as an pseudo C code:

```
#define SAVE 0;
#define PROC 1;

OC_SaveAndProc(val, mode,cnt)
INTEGER       val, mode,cnt;
BOOLEAN     combined;
{
  static INTEGER   buf[200];
   int i, j, n;
   if (mode == SAVE)
       { cnt = cnt mod 200;
         if (cmbnd == C_NotCombined) AND (val<(151 + 8)) then
                {  buf[cnt] = val;
                  return (TRUE);
                 }
         if (cmbnd == C_Combined) AND (val<(81 + 8)) then
                {  buf[cnt] = val;
                  return (TRUE);
                 }
         else return (FALSE);
        }
   if (mode == PROC)
        {
          for (i=0,  i<200, i++)
                {  n=0;
                  for (j=0, j<200, j++)
                      if (buf[j] == buf[i])
                          n = n+1;
                  if (n > 41) return (FALSE);
                }
            return(TRUE);
         }
}
```

Detailed Comments : This test suite operation has two operation modes :

− when the mode is SAVE and the val is less than 89 for combined or 159 for non−combined, it saves the value val into internal buffer and returns TRUE, otherwise returns FALSE. 200 values will be stored in the internal buffer when the operation is invoked 200 times.

− When the mode is PROC, it analyses the values stored in the internal buffer, if no more than 41 of them are equal the operation returns TRUE, otherwise returns FALSE. (i.e. for all n, CARD{ k|f(k) = n } <= 41)

Test Suite Operation Definition

Operation Name : OC_SaveAndProc3(val : BITSTRING; mode :INTEGER ; cnt : INTEGER)

Result Type : BOOLEAN

Comments : This operation is used for storing and analysing the random reference.

Description

The function of this operation is defined as an pseudo C code:

```
#define SAVE 0;
#define PROC 1;

OC_SaveAndProc(val, mode,cnt)
BITSTRING[8] val;
INTEGER        mode,cnt;
{
  static BITSTRING[8]   buf[7];
   int i, j, n=7;
   if (mode == SAVE)
       { cnt = cnt mod 7;
         buf[cnt] = val;
         return(TRUE);
        }
   if (mode == PROC)
        {
          for (i=0,  i<6, i++)
              { for (j=i+1, j<7, j++)
                    if (buf[j] == buf[i])
                      { n = n−1;
                        break;
                      }
              }
           if (n>=4) then
                    return(TRUE)
           else    return (FALSE);
         }

}
```

Detailed Comments : The function of this test suite operation is :

− it saves the value val into internal buffer when the mode = SAVE. 7 values will be stored in the internal buffer when the operation is invoked 7 times.

− it compares the values stored in the internal buffer when the mode = PROC, if 4 or more than 4 of them are different the operation returns TRUE, otherwise returns FALSE.

Test Suite Operation Definition

Operation Name : OC_SaveAndRetrv(val : RQR; mode, idx, ex: INTEGER)

Result Type : RQR

Comments : This operation is used for storing and retrieving the random reference.

Description

The function of this test suite operation is (in prose):
− it saves the value val into internal buffer buf[idx] when the mode = SAVE and ex = 0. Maximum 9 values can be stored. The idx is ranged between 1−9.
− it returns the value stored in the internal buffer buf[idx] when the mode = RETRV and ex = 0.
− it returns a value which is different from any value stored in the buf and also different from any values which have been returned by the consecutive invocation of this operation with ex <> 0, if ex <> 0. The idx is ranged between 10−13.

The function of this operation is defined as an pseudo C code:

```
#define SAVE 0;
#define RETRV 1;

OC_SaveAndRetrv(val, mode, idx, ex)
RQR             val;
INTEGER         mode, idx, ex;
{
  int i, j;
  static RQR   buf[14];
   if ((mode == SAVE) AND (ex == 0))
       {
         buf[idx] = val;
         buf[10].ra = '00000000'B;
         buf[10].fn = '00'O;
         buf[11].ra = '00000000'B;
         buf[11].fn = '00'O;
         buf[12].ra = '00000000'B;
         buf[12].fn = '00'O;
         buf[13].ra = '00000000'B;
         buf[13].fn = '00'O;
         return (buf[10];
        }
   if ((mode == RETRV) AND (ex == 0))
         return (buf[idx]);
   if (ex != 0)
         {
           buf[0].ra = buf[1].ra + '00000001'B;
           buf[0].fn = buf[1].fn;
           for (j=1, j <13, j++)
              {
               for (i=1, i<14, i++)
                  if( buf[0] == buf[i])
                      { buf[0].ra = buf[i].ra + '00000001'B;
                         break;
                       }
               if (i == 14)
                {
                   buf[idx].ra = buf[0].ra:
                   return (buf[0]);
                }
              }
          buf[idx].ra = buf[i].ra+'00000001'B;
          return (buf[idx]);
         }
}
```

Detailed Comments : 0. The pseudo C code gives one of the possible implementations for the OC description in prose.
1. '00'O should be understood as equivalence of Fn_01, a TTCN structured type constraint.

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Test Suite Operation Definition

Detailed Comments : ...
2. The OC can save maximum 13 RQR values. In SAVE mode, idx is ranged between 1−9.
3. For ex<>0, there are maximum 13 scans. In each scan a new value is assigned to buf[0].ra. If there is a 'non−match' in one of the 13 scans the buf[0] is returned. In case of 'all−match' for the 13 scans, the pair of (buf[i].ra + '00000001' at the last scan, buf[idx].fn is returned (idx is ranged between 10 − 13).

Test Suite Operation Definition

Operation Name : OC_StartTime(frmn : FN; t, i : INTEGER)
Result Type : STRT
Comments :

Description

OC_StartTime operation generates the STARTING TIME IE according to the input parameters.

```
(* frmn is the current frame number,
   t is the "delay" in applying the new frequencies,
   i is the contents of the starting time IE. *)
OC_StartTime(frmn, t, i)
INTEGER  t, i;
FN          frmn;
{
int tmp;
STRT strt;

tmp = 51 * ((frmn.t3 − frmn.t2) MOD 26) + frmn.t3 + 1326 * frmn.t1_ ;
tmp = (tmp + t) MOD 42432;
strt.fn.t1_ = (tmp DIV 1326) MOD 32;
strt.fn.t2   = tmp MOD 26;
strt.fn.t3   = tmp MOD 51;
strt.iei = OMIT;
if (i == 1) strt.iei := '01111100'B  /* if i=1 the information element identifier shall be included */
return(strt);
}
```

Detailed Comments :

Test Suite Operation Definition

Operation Name : OC_SubOctet(src : OCTETSTRING; len :INTEGER)
Result Type : OCTETSTRING
Comments :

Description

OC_SubOctet(src, len) is the octetstring of length 'len' starting from the leftmost position of the source octetstring 'src'.

For example : OC_SubOctet('123456789ABCDEF'O, 4) = '12345678'O

Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_SubchOfFacchh(subch: B_1; cell : CellID; inst : INTEGER)
Result Type	: LOGICCH
Comments	: subch is of type BITSTRING[1]

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Test Suite Operation Definition

Description

OC_SubchOfFacchh operation returns a logic channel identifier for FACCHH subchannel indicated by the input parameters ‘subch‘, ‘cell‘ and ‘inst‘, where ’subch’ is the subchannel number, ‘cell‘ is the cell identifier which the channel belongs to, ‘inst‘ is the instance of the channel.

for example:

OC_SubchOfFacchh(’0’B, C_CellA, 1) = C_FACCHH0_A_1;
OC_SubchOfFacchh(’1’B, C_CellA, 1) = C_FACCHH1_A_1;
OC_SubchOfFacchh(’0’B, C_CellB, 1) = C_FACCHH0_B_1;
OC_SubchOfFacchh(’1’B, C_CellB, 1) = C_FACCHH1_B_1.

pseudo C code definition for the operation as following :

```
OC_SubchOfFacchh(subch, cell, inst)
BITSTRING   subch;
CellID     cell;
INTEGER   inst;
{
  LOGICCH    logch;
  if (subch==’0’B && cell == C_CellA)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_A_1; break;
          case 2 : logch = C_FACCHH0_A_2; break;
          case 3 : logch = C_FACCHH0_A_3; break;
        }
 if (subch==’0’B && cell == C_CellB)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_B_1; break;
          case 2 : logch = C_FACCHH0_B_2; break;
          case 3 : logch = C_FACCHH0_B_3; break;
        }
 if (subch==’0’B && cell == C_CellC)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_C_1; break;
          case 2 : logch = C_FACCHH0_C_2; break;
          case 3 : logch = C_FACCHH0_C_3; break;
        }
 if (subch==’0’B && cell == C_CellD)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_D_1; break;
          case 2 : logch = C_FACCHH0_D_2; break;
          case 3 : logch = C_FACCHH0_D_3; break;
        }
 if (subch==’0’B && cell == C_CellE)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_E_1; break;
          case 2 : logch = C_FACCHH0_E_2; break;
          case 3 : logch = C_FACCHH0_E_3; break;
        }
 if (subch==’0’B && cell == C_CellF)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_F_1; break;
          case 2 : logch = C_FACCHH0_F_2; break;
          case 3 : logch = C_FACCHH0_F_3; break;
        }
 if (subch==’0’B && cell == C_CellG)
      switch (inst)
        {
          case 1 : logch = C_FACCHH0_G_1; break;
          case 2 : logch = C_FACCHH0_G_2; break;
          case 3 : logch = C_FACCHH0_G_3; break;
        }
 if (subch==’0’B && cell == C_CellH)
      switch (inst)
        {
```

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_SubchOfSacchh(subch: B_1; cell : CellID; inst : INTEGER)
Result Type	: LOGICCH
Comments	: subch is of type BITSTRING[1]

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Test Suite Operation Definition

Description

OC_SubchOfSacchh operation returns a logic channel identifier for SACCHH subchannel indicated by the input parameters ‘subch‘, ‘cell‘ and ‘inst‘, where ’subch’ is the subchannel number, ‘cell‘ is the cell identifier which the channel belongs to, ‘inst‘ is the instance of the channel.

for example:

OC_SubchOfSacchh(’0’B, C_CellA, 1) = C_SACCHH0_A_1;
OC_SubchOfSacchh(’1’B, C_CellA, 1) = C_SACCHH1_A_1;
OC_SubchOfSacchh(’0’B, C_CellB, 1) = C_SACCHH0_B_1;
OC_SubchOfSacchh(’1’B, C_CellB, 1) = C_SACCHH1_B_1.

pseudo C code definition for the operation as following :

```
OC_SubchOfSacchh(subch, cell, inst)
BITSTRING   subch;
CellID     cell;
INTEGER   inst;
{
  LOGICCH    logch;
  if (subch=='0'B && cell == C_CellA)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_A_1; break;
          case 2 : logch = C_SACCHH0_A_2; break;
          case 3 : logch = C_SACCHH0_A_3; break;
        }
 if (subch=='0'B && cell == C_CellB)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_B_1; break;
          case 2 : logch = C_SACCHH0_B_2; break;
          case 3 : logch = C_SACCHH0_B_3; break;
        }
 if (subch=='0'B && cell == C_CellC)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_C_1; break;
          case 2 : logch = C_SACCHH0_C_2; break;
          case 3 : logch = C_SACCHH0_C_3; break;
        }
 if (subch=='0'B && cell == C_CellD)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_D_1; break;
          case 2 : logch = C_SACCHH0_D_2; break;
          case 3 : logch = C_SACCHH0_D_3; break;
        }
 if (subch=='0'B && cell == C_CellE)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_E_1; break;
          case 2 : logch = C_SACCHH0_E_2; break;
          case 3 : logch = C_SACCHH0_E_3; break;
        }
 if (subch=='0'B && cell == C_CellF)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_F_1; break;
          case 2 : logch = C_SACCHH0_F_2; break;
          case 3 : logch = C_SACCHH0_F_3; break;
        }
 if (subch=='0'B && cell == C_CellG)
      switch (inst)
        {
          case 1 : logch = C_SACCHH0_G_1; break;
          case 2 : logch = C_SACCHH0_G_2; break;
          case 3 : logch = C_SACCHH0_G_3; break;
        }
 if (subch=='0'B && cell == C_CellH)
      switch (inst)
        {
```

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_SubchOfSacch4(subch: B_2; cell : CellID)
Result Type	: LOGICCH
Comments	:

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Test Suite Operation Definition

Description

OC_SubchOfSacch4 operation returns a logic channel identifier for SACCHC4 subchannel indicated by the input parameters ‘subch ‘ and ‘cell‘, where ‘subch‘ is the TDMA offset, ‘cell‘ is the cell identifier which the channel belongs to.

for example:

OC_SubchOfSacch4(’00’B, C_CellA) = C_SACCHC40_A;
OC_SubchOfSacch4(’01’B, C_CellA) = C_SACCHC41_A;
OC_SubchOfSacch4(’10’B, C_CellA) = C_SACCHC42_A;
OC_SubchOfSacch4(’11’B, C_CellA) = C_SACCHC43_A;
OC_SubchOfSacch4(’00’B, C_CellB) = C_SACCHC40_B;
OC_SubchOfSacch4(’01’B, C_CellB) = C_SACCHC41_B.

pseudo C code definition for the operation as following :

```
OC_SubchOfSacch4(subch, cell)
BITSTRING   subch;
CellID     cell;
{
  LOGICCH    logch;
  if (cell == C_CellA)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_A; break;
         case ’01’B : logch = C_SACCHC41_A; break;
         case ’10’B : logch = C_SACCHC42_A; break;
         case ’11’B : logch = C_SACCHC43_A; break;
       }
  if (cell == C_CellB)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_B; break;
         case ’01’B : logch = C_SACCHC41_B; break;
         case ’10’B : logch = C_SACCHC42_B; break;
         case ’11’B : logch = C_SACCHC43_B; break;
       }
  if (cell == C_CellC)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_C; break;
         case ’01’B : logch = C_SACCHC41_C; break;
         case ’10’B : logch = C_SACCHC42_C; break;
         case ’11’B : logch = C_SACCHC43_C; break;
       }
  if (cell == C_CellD)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_D; break;
         case ’01’B : logch = C_SACCHC41_D; break;
         case ’10’B : logch = C_SACCHC42_D; break;
         case ’11’B : logch = C_SACCHC43_D; break;
       }
  if (cell == C_CellE)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_E; break;
         case ’01’B : logch = C_SACCHC41_E; break;
         case ’10’B : logch = C_SACCHC42_E; break;
         case ’11’B : logch = C_SACCHC43_E; break;
       }
  if (cell == C_CellF)
     switch (subch)
       {
         case ’00’B : logch = C_SACCHC40_F; break;
         case ’01’B : logch = C_SACCHC41_F; break;
         case ’10’B : logch = C_SACCHC42_F; break;
         case ’11’B : logch = C_SACCHC43_F; break;
       }
  if (cell == C_CellG)
     switch (subch)
       {
```

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_SubchOfSacch8(subch: B_3; cell : CellID; inst : INTEGER)
Result Type	: LOGICCH
Comments	: offset is of type BITSTRING[3]

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Test Suite Operation Definition

Description

OC_SubchOfSacch8 operation returns a logic channel identifier for SACCHC8 subchannel indicated by the input parameters ‘subch‘, ‘cell‘ and ‘inst‘, where ‘subch‘ is the TDMA offset, ‘cell‘ is the cell identifier which the channel belongs to, ‘inst‘ is the instance of the channel.

for example:

OC_SubchOfSacch8(’000’B, C_CellA, 1) = C_SACCHC80_A_1;
OC_SubchOfSacch8(’001’B, C_CellA, 1) = C_SACCHC81_A_1;
OC_SubchOfSacch8(’010’B, C_CellA, 1) = C_SACCHC82_A_1;
OC_SubchOfSacch8(’011’B, C_CellA, 1) = C_SACCHC83_A_1;
OC_SubchOfSacch8(’100’B, C_CellA, 1) = C_SACCHC84_A_1;
OC_SubchOfSacch8(’101’B, C_CellA, 1) = C_SACCHC85_A_1;
OC_SubchOfSacch8(’110’B, C_CellA, 1) = C_SACCHC86_A_1;
OC_SubchOfSacch8(’111’B, C_CellA, 1) = C_SACCHC87_A_1;
OC_SubchOfSacch8(’000’B, C_CellB, 1) = C_SACCHC80_B_1;
OC_SubchOfSacch8(’001’B, C_CellB, 1) = C_SACCHC81_B_1;
OC_SubchOfSacch8(’000’B, C_CellC, 2) = C_SACCHC80_C_2;
OC_SubchOfSacch8(’001’B, C_CellC, 2) = C_SACCHC81_C_2.

pseudo C code definition for the operation as following :

```
OC_SubchOfSacch8(subch, cell, inst)
BITSTRING   subch;
CellID     cell;
INTEGER   inst;
{
  LOGICCH    logch;
  if (inst==1 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SACCHC80_A_1; break;
         case ’001’B : logch = C_SACCHC81_A_1; break;
         case ’010’B : logch = C_SACCHC82_A_1; break;
         case ’011’B : logch = C_SACCHC83_A_1; break;
         case ’100’B : logch = C_SACCHC84_A_1; break;
         case ’101’B : logch = C_SACCHC85_A_1; break;
         case ’110’B : logch = C_SACCHC86_A_1; break;
         case ’111’B : logch = C_SACCHC87_A_1; break;
       }
  if (inst==2 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SACCHC80_A_2; break;
         case ’001’B : logch = C_SACCHC81_A_2; break;
         case ’010’B : logch = C_SACCHC82_A_2; break;
         case ’011’B : logch = C_SACCHC83_A_2; break;
         case ’100’B : logch = C_SACCHC84_A_2; break;
         case ’101’B : logch = C_SACCHC85_A_2; break;
         case ’110’B : logch = C_SACCHC86_A_2; break;
         case ’111’B : logch = C_SACCHC87_A_2; break;
       }
  if (inst==3 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SACCHC80_A_3; break;
         case ’001’B : logch = C_SACCHC81_A_3; break;
         case ’010’B : logch = C_SACCHC82_A_3; break;
         case ’011’B : logch = C_SACCHC83_A_3; break;
         case ’100’B : logch = C_SACCHC84_A_3; break;
         case ’101’B : logch = C_SACCHC85_A_3; break;
         case ’110’B : logch = C_SACCHC86_A_3; break;
         case ’111’B : logch = C_SACCHC87_A_3; break;
       }
  if (inst==1 && cell == C_CellB)
     switch (subch)
       {
         case ’000’B : logch = C_SACCHC80_B_1; break;
         case ’001’B : logch = C_SACCHC81_B_1; break;
         case ’010’B : logch = C_SACCHC82_B_1; break;
         case ’011’B : logch = C_SACCHC83_B_1; break;
         case ’100’B : logch = C_SACCHC84_B_1; break;
```

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name :	OC_SubchOfSdcch4(subch: B_2; cell : CellID)
Result Type :	LOGICCH
Comments :	

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Test Suite Operation Definition

Description

OC_SubchOfSdcch4 operation returns a logic channel identifier for SDCCH4 subchannel indicated by the input parameters ‘subch ‘ and ‘cell‘, where ‘subch‘ is the TDMA offset, ‘cell‘ is the cell identifier which the channel belongs to.

for example:

OC_SubchOfSdcch4(’00’B, C_CellA) = C_SDCCH40_A;
OC_SubchOfSdcch4(’01’B, C_CellA) = C_SDCCH41_A;
OC_SubchOfSdcch4(’10’B, C_CellA) = C_SDCCH42_A;
OC_SubchOfSdcch4(’11’B, C_CellA) = C_SDCCH43_A;
OC_SubchOfSdcch4(’00’B, C_CellB) = C_SDCCH40_B;
OC_SubchOfSdcch4(’01’B, C_CellB) = C_SDCCH41_B.

pseudo C code definition for the operation as following :

```
OC_SubchOfSdcch4(subch, cell)
BITSTRING   subch;
CellID     cell;
{
  LOGICCH    logch;
  if (cell == C_CellA)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_A; break;
         case ’01’B : logch = C_SDCCH41_A; break;
         case ’10’B : logch = C_SDCCH42_A; break;
         case ’11’B : logch = C_SDCCH43_A; break;
       }
  if (cell == C_CellB)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_B; break;
         case ’01’B : logch = C_SDCCH41_B; break;
         case ’10’B : logch = C_SDCCH42_B; break;
         case ’11’B : logch = C_SDCCH43_B; break;
       }
  if (cell == C_CellC)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_C; break;
         case ’01’B : logch = C_SDCCH41_C; break;
         case ’10’B : logch = C_SDCCH42_C; break;
         case ’11’B : logch = C_SDCCH43_C; break;
       }
  if (cell == C_CellD)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_D; break;
         case ’01’B : logch = C_SDCCH41_D; break;
         case ’10’B : logch = C_SDCCH42_D; break;
         case ’11’B : logch = C_SDCCH43_D; break;
       }
  if (cell == C_CellE)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_E; break;
         case ’01’B : logch = C_SDCCH41_E; break;
         case ’10’B : logch = C_SDCCH42_E; break;
         case ’11’B : logch = C_SDCCH43_E; break;
       }
  if (cell == C_CellF)
     switch (subch)
       {
         case ’00’B : logch = C_SDCCH40_F; break;
         case ’01’B : logch = C_SDCCH41_F; break;
         case ’10’B : logch = C_SDCCH42_F; break;
         case ’11’B : logch = C_SDCCH43_F; break;
       }
  if (cell == C_CellG)
     switch (subch)
       {
```

Continued from previous page

Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name	: OC_SubchOfSdcch8(subch: B_3; cell : CellID; inst : INTEGER)
Result Type	: LOGICCH
Comments	: offset is of type BITSTRING[3]

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Test Suite Operation Definition

Description

OC_SubchOfSdcch8 operation returns a logic channel identifier for SDCCH8 subchannel indicated by the input parameters ‘subch‘, ‘cell‘ and ‘inst‘, where ‘subch‘ is the TDMA offset, ‘cell‘ is the cell identifier which the channel belongs to, ‘inst‘ is the instance of the channel.

for example:

OC_SubchOfSdcch8(’000’B, C_CellA, 1) = C_SDCCH80_A_1;
OC_SubchOfSdcch8(’001’B, C_CellA, 1) = C_SDCCH81_A_1;
OC_SubchOfSdcch8(’010’B, C_CellA, 1) = C_SDCCH82_A_1;
OC_SubchOfSdcch8(’011’B, C_CellA, 1) = C_SDCCH83_A_1;
OC_SubchOfSdcch8(’100’B, C_CellA, 1) = C_SDCCH84_A_1;
OC_SubchOfSdcch8(’101’B, C_CellA, 1) = C_SDCCH85_A_1;
OC_SubchOfSdcch8(’110’B, C_CellA, 1) = C_SDCCH86_A_1;
OC_SubchOfSdcch8(’111’B, C_CellA, 1) = C_SDCCH87_A_1;
OC_SubchOfSdcch8(’000’B, C_CellB, 1) = C_SDCCH80_B_1;
OC_SubchOfSdcch8(’001’B, C_CellB, 1) = C_SDCCH81_B_1;
OC_SubchOfSdcch8(’000’B, C_CellC, 2) = C_SDCCH80_C_2;
OC_SubchOfSdcch8(’001’B, C_CellC, 2) = C_SDCCH81_C_2.

pseudo C code definition for the operation as following :

```
OC_SubchOfSdcch8(subch, cell, inst)
BITSTRING   subch;
CellID     cell;
INTEGER   inst;
{
  LOGICCH    logch;
  if (inst==1 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SDCCH80_A_1; break;
         case ’001’B : logch = C_SDCCH81_A_1; break;
         case ’010’B : logch = C_SDCCH82_A_1; break;
         case ’011’B : logch = C_SDCCH83_A_1; break;
         case ’100’B : logch = C_SDCCH84_A_1; break;
         case ’101’B : logch = C_SDCCH85_A_1; break;
         case ’110’B : logch = C_SDCCH86_A_1; break;
         case ’111’B : logch = C_SDCCH87_A_1; break;
       }
  if (inst==2 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SDCCH80_A_2; break;
         case ’001’B : logch = C_SDCCH81_A_2; break;
         case ’010’B : logch = C_SDCCH82_A_2; break;
         case ’011’B : logch = C_SDCCH83_A_2; break;
         case ’100’B : logch = C_SDCCH84_A_2; break;
         case ’101’B : logch = C_SDCCH85_A_2; break;
         case ’110’B : logch = C_SDCCH86_A_2; break;
         case ’111’B : logch = C_SDCCH87_A_2; break;
       }
  if (inst==3 && cell == C_CellA)
     switch (subch)
       {
         case ’000’B : logch = C_SDCCH80_A_3; break;
         case ’001’B : logch = C_SDCCH81_A_3; break;
         case ’010’B : logch = C_SDCCH82_A_3; break;
         case ’011’B : logch = C_SDCCH83_A_3; break;
         case ’100’B : logch = C_SDCCH84_A_3; break;
         case ’101’B : logch = C_SDCCH85_A_3; break;
         case ’110’B : logch = C_SDCCH86_A_3; break;
         case ’111’B : logch = C_SDCCH87_A_3; break;
       }
  if (inst==1 && cell == C_CellB)
     switch (subch)
       {
         case ’000’B : logch = C_SDCCH80_B_1; break;
         case ’001’B : logch = C_SDCCH81_B_1; break;
         case ’010’B : logch = C_SDCCH82_B_1; break;
         case ’011’B : logch = C_SDCCH83_B_1; break;
         case ’100’B : logch = C_SDCCH84_B_1; break;
```

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name :	OM_2Msgs(ch : LOGICCH; pgg : PGG; mode : SENDINGMODE)
Result Type :	BOOLEAN
Comments :	

Description

OM_2Msgs puts the layer 2 emulator into a special operation mode then returns. In this special mode the layer 2 emulator sends the next two consecutive messages in the following way:

− send the first message on the paging subchannel indicated by the ‘pgg‘ and ’ch’;

− if the ‘mode‘ = C_NxtButOne, send the second message in the next but one paging sub block;
− if the ‘mode‘ = C_FmrAGB, send the second message in a former access grant block;
− if the ‘mode‘ = C_BfReOcc, send the second message before the MS’s original paging subchannel re−occurs but later than the next paging block of that CCCH (paging block not belong to the MS);
− if the ‘mode‘ = C_NxtButOneNxt, nothing is sent in the next but one paging sub block, then send the second message in the next paging subblock of the MS’s paging subchannel.

Detailed Comments :

Test Suite Operation Definition	
Operation Name :	OM_Assoc(lgch1 : LOGICCH; sublgch1 : LOGICCH; sublgch2 : LOGICCH; sublgch3 : LOGICCH; sublgch4 : LOGICCH; sublgch5 : LOGICCH; sublgch6 : LOGICCH; sublgch7: LOGICCH; sublgch8 : LOGICCH; lgch2 : LOGICCH; sublgch9 : LOGICCH; sublgch10 : LOGICCH; sublgch11 : LOGICCH; sublgch12 : LOGICCH; sublgch13 : LOGICCH; sublgch14 : LOGICCH; sublgch15: LOGICCH; sublgch16 : LOGICCH)
Result Type :	BOOLEAN
Comments :	

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Test Suite Operation Definition

Description

OM_Assoc operation associates the sub logic channel identifiers ‘sublgch1‘ to ‘sublgch8‘ and ‘sublgch9‘ to ‘sublgch16‘ with the generic "parent" channel identifier ‘ lgch1‘ and ‘lgch2‘ respectively, therefore the subchannel identifiers can refer to the corresponding channels configured by OM_ChConf operation.

The ‘lgch1‘ can be an identifier for SDCCH4, SDCCH8, FACCHH and the ‘lgch2‘ can be SACCHC4, SACCHC8, and SACCHH.

"dummy" in the actual parameter list means the corresponding parameter is not used.

Naming convention for logical channel constants:

C_<channel type>[<rate>][<subchannel>][_<cell>][_<instance>]

e.g.:	C_FACCH	H	0	_C	_3	=>	C_FACCHH0_C_3

channel type: FCCH, SCH, BCCH, CBCH, PCH, RACH, FACCH, SACCH, SDCCH, DCCH

rate: F(ull), H(alf), 4 (fourths, C4 for SACCHC4), 8 (eighths, C8 for SACCHC8).

subchannel: H: 0, 1
(C)4: 0, ..., 3
(C)8: 0, ..., 7

cell: A, ..., H

instance: 1, ..., 3 When several channels of the same type can exist in one cell simultaneously (in different time slots and / or on different frequencies) they are identified by their instance. The parameters of ChConf are used to specify the frequency and slot of this instance of the channel type.

Not all possible combinations of this naming syntax have been used. According to the elements that are used / omitted the name can have a special meaning.

Examples:	Comments:
C_FCCH_A	FCCH of cell A.
C_SCH_A	SCH of cell A.
C_BCCH_A_1	First instance of a BCCH in cell A.
C_CBCH_A	CBCH of cell A.
C_PCH_A_1	First instance of a PCH in cell A (there is one instance of the PCH per BCCH in the cell).
C_AGCH_A_1	First instance of a AGCH in cell A (there is one instance of the AGCH per BCCH in the cell).
C_RACH_A_1	First instance of a RACH in cell A.
C_FACCHF_A_1	First instance of a full rate FACCH in cell A.
C_FACCHH_A_1	First instance of a half rate FACCH in cell A (all subchannels).
C_FACCHH0_A_1	Subchannel 0 of the first instance of a half rate FACCH in cell A.
C_SACCHF_A_1	First instance of a full rate SACCH in cell A.
C_SACCHH_A_1	First instance of a half rate SACCH in cell A (all subchannels).
C_SACCHH1_A_1	Subchannel 1 of the first instance of a half rate SACCH in cell A.
C_SACCHC4_A	SACCH/4 of cell A (all subchannels).
C_SACCHC43_A	Subchannel 3 of the SACCH/4 of cell A.
C_SACCHC8_A_1	First instance of a SACCH/8 in cell A (all subchannels).
C_SACCHC87_A_1	Subchannel 7 of the first instance of a SACCH/8 in cell A.
C_SDCCH4_A	SDCCH/4 of cell A (all subchannels).
C_SDCCH42_A	Subchannel 2 of the SDCCH/4 of cell A.
C_SDCCH87_A_1	First instance of a SDCCH/8 in cell A (all subchannels).
C_SDCCH87_A_1	Subchannel 7 of the first instance of a SDCCH/8 in cell A.

This list covers all types of combinations used in the TTCN for the time being.

When the meaning refers to ’all’ subchannels of a channel (eg. C_FACCHH_A_1), it means that all active subchannels of this channel activated previously by OM_ChConf, are associated with a logical channel identifier in the OM_Assoc.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_BmInfo(ch : LOGICCH; mode : B_8)

Result Type : BOOLEAN

Comments : mode is of type BITSTRING[8], imode is a part of the channel mode IE

Description

OM_BmInfo operation checks whether the MS starts transmiting Bm channel information according to the new channel mode 'mode'. The operation returns TRUE if the result of the check is correct otherwise the TSO returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_ChangeRFOf2Cells(cellid1 : CellID; bspwr1 : INTEGER; cellid2 : CellID; bspwr2 : INTEGER)

Result Type : BOOLEAN

Comments :

Description

This TSO is used to change the RF level of the cell 'cellid1' to the RF level 'bspwr1' and the RF level of the cell 'cellid2' to the RF level 'bspwr2' [dBuVemf], then the TSO returns TRUE.

The main use of this TSO is to force the Mobile Station(MS) to select a new cell according to the GSM 05.08 and GSM 03.22.

For the MS to select the new cell then the path loss criterion parameter (C1) of the old will have to be less than zero (C1 < 0).
This criterion is defined as:

C1 = (A − max(B, 0))

when

A − Received Level Average − (RXLEV_ACCESS_MIN)
B − MS_TXPWR_MAX_CCH − P {non DCS 1800}
MS_TXPWR_MAX_CCH + POWEROFFSET − P {DCS 1800}

RXLEV_ACCESS_MIN − Minimum received level at the MS required for access to the system.
MS_TXPWR_MAX_CCH − Maximum TX power level an MS may use when accessing the system until otherwise commanded.
POWER OFFSET − The power offset to be used in conjunction with the MS TXPWR MAX CCH parameter by the class 3 DCS 1 800 MS.
P − Maximum RF output power of the MS.

All values are expressed in dBm.

In most test cases MS_TXPWR_MAX_CHH and the POWER_OFFSET will be set at their minimum values thus C1 = A (B always being negative). Suitable levels of cells will be either 63 dBuV(C_E_default) ,53 dBuV(C_E_neighbourdefault) or 45 dBuV(C_E_suitable). Assuming that the MS uses a RXLEV_ACCESS_MIN between −110 and −115 dbM then to ensure that C1 < 0 the test system's output needs to be set to ensure the level input detected by the MS is less than −123 dBm or lower (−115 plus an 8dB for discrimination between C1 or C2 values and 0, GSM 11.10−1 section 20). This value of −123 dBm corresponds to −10 dBuV (C_E_notsuitable)

Detailed Comments :

Test Suite Operation Definition

Operation Name	:	OM_ChConf(bspwr: INTEGER; mspwr : INTEGER; acttype : BITSTRING; chmod : CHMOD; ta : TA; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; td : INTEGER; fn : INTEGER; babr, cch_con, bpm : B_3; pgfil : PG1_RQ_PDU; dtxu : BITSTRING; dtxd : BITSTRING; cell : CellID; lgch1 : LOGICCH; lgch2 : LOGICCH; lgch3 : LOGICCH; lgch4 : LOGICCH; lgch5 : LOGICCH; lgch6 : LOGICCH; lgch7 : LOGICCH; lgch8 : LOGICCH; lgch9 : LOGICCH)
Result Type	:	BOOLEAN
Comments	:	

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Test Suite Operation Definition

Description

The operation sets the configuration of a basic physical channel according to the input parameters and map logic channel combination onto it:

− bspwr: base station power level in dBuv;
− mspwr: mobile station power level in "power control level";
− acttype: type of activation:
  − ’000’B activation for intra−cell channel change −−−− immediate assignment;
  − ’001’B activation for intra−cell channel change −−−− assignment;
  − ’010’B activation for inter−cell channel change −−−− asynchronous handover;
  − ’011’B activation for inter−cell channel change −−−− synchronous handover;
  − ’100’B activation for additional assignment;
    NOTE: the types defined above are all the same, no real difference
  − ’101’B activation for receiving only;
− chmod: channel mode;
− ta: timing advance −−−− receive timing ta bit periods in advance of the normal receive timing if the channel is a dedicated channel ;
− slot: time slot;
− tsc: Training sequence code for normal bursts;
− rf: ARFCN or hopping parameters;
− chcmbn: logic channel combination mapping to the physical channel;
− td: timing difference between the cell and conceptual timing reference −−−− to make 2 cells with different timebase;
− fn: initial frame number offset to the timing base counter −−−− to make 2 cells with different frame numbers;
− babr number of blocks reserved for access grant
− cch−con CCCH/SDCCHs configuration
− bpm multiframe period for transmission of PAGING REQUEST
− pgfil: paging filling contents;
− dtxu: mobile station discontinuous transmission:
  − ’0’B mobile station discontinuous transmission is not applied;
  − ’1’B mobile station discontinuous transmission is applied;
− dtxd: base station discontinuous transmission:
  − ’0’B base station discontinuous transmission is not applied;
  − ’1’B base station discontinuous transmission is applied;
− cell: cell identifier;
− lgch1: logic channel identifier for the channel FCCH;
− lgch2: logic channel identifier for the channel SCH;
− lgch3: logic channel identifier for the channel BCCH;
− lgch4: logic channel identifier for the channel PCH;
− lgch5: logic channel identifier for the channel AGCH;
− lgch6: logic channel identifier for the channel RACH;
− lgch7: logic channel identifier for the channel FACCH or SDCCH;
− lgch8: logic channel identifier for the channel SACCH;
− lgch9: logic channel identifier for the channel CBCH;

For parameters lgch1 to lgch9 "dummy" in the actual parameter list means that the corresponding parameters are not used.

In the test cases the logic channel identifiers lgch1 to lgch9 are used to refer the logic channels configured by the operation. There are only generic identifiers for SDCCH4 or SDCCH8 or FACCHH channel and SACCHC4 or SACCHC8 or SACCHH, identifiers for subchannels of SDCCH4 or SDCCH8 or FACCHH and SACCHC4 or SACCHC8 or SACCHH are linked to the generic identifiers by OM_Assoc operation and in turn refer to the sub logic channels configured by the operation.

Channel re−use whithiin OM_ChConf:
When an OM_ChConf calls is made then the following rules can be applied for deciding whether or not to re−use existing physical channel.
Decode the ’chcmbn’ (channel combination) parameter to determine the new channel type.
If new channel = "C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined) or
if new channel = "C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined + SMS) then re−use any existing control channel configuration with same CellID.
If new channel = "C_FCCH_SCH_BCCH_CCCH" (non−combined) then use any combined, combined + SMS or non−combined control channel configuration with the same CellID.
If new channel = "C_BCCH_CCCH_2", "C_BCCH_CCCH_3" or "C_BCCH_CCCH_4" (ccch−group) then re−use any existing ccch−group control channel configuration with the same CellID and the slot, or re−use any existing combined, combined + SMS with the same CellID.
If new channel = "C_TCHF_ACCHF_1", "C_TCHF_ACCHF_2", "C_TCHH_ACCHH_1", "C_TCHH_ACCHH_2" (traffic) or "C_SDCCH8_SACCHC8_1", "C_SDCCH8_SACCHC8_2", "C_SDCCH8_SACCHC8_3" (dedicated) then re−use any existing traffic or dedicated channel with the same channel description.

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Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition	
Operation Name :	OM_ChMdModi(ch : LOGICCH; chmod: CHMOD)
Result Type :	BOOLEAN
Comments :	
Description	
OM_ChMdModi operation passes channel mode IE for channel ‘ch‘ to lower layer emulator and requests the emulator to set the ‘ch‘ to the mode ‘chmod‘. After the mode changed, it returns.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OM_CphMdChg(ch : LOGICCH; cphmod: CPHMS; key : BITSTRING)
Result Type :	BOOLEAN
Comments :	
Description	
OM_CphMdChg operation passes ciphering parameters for channel ‘ch‘ to lower layer and sets the lower layer emulator into a special operation mode in which lower layer starts the 3−step ciphering mode setting sequence when the next L3 message on the channel ‘ch‘ arrives.	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	OM_CphMd(ch : LOGICCH; cphmod: CPHMS; key : BITSTRING)
Result Type :	BOOLEAN
Comments :	
Description	
OM_CphMd operation passes ciphering parameters for channel ‘ch‘ to lower layer and sets the channel ‘ch‘ in the ciphering mode ‘cphmod‘. This operation puts the channel ‘ch‘ into specified ciphering mode ‘cphmod‘ immediately without the 3−step ciphering mode setting sequence.	
Detailed Comments :	

Test Suite Operation Definition

Operation Name : OM_ComingFn(ch : LOGICCH)

Result Type : FN

Comments :

Description

OM_ComingFn operation returns the frame number (FN modulo 42432) which is about 5 seconds later than current frame number and is able to carry L3 message on the channel ‘ch‘.

Detailed Comments : The delay of about 5 seconds ensures that there is still enough time left for higher layer controller to prepare next TTCN send event after the OM_ComingFn returns. the exact delay value is up to the implementor.

Test Suite Operation Definition

Operation Name : OM_Deactivate(ch1, ch2 : LOGICCH)

Result Type : BOOLEAN

Comments :

Description

OM_Deactivate operation deactivates the logical channels ‘ch1‘ and ’ch2’, then returns TRUE.

The ch1 can be a DCCH or a TCH, the ch2 is the associated SACCH.

Deactivation of an active SDCCH channel can be done by stopping transmission; this means that for the bursts on the BCCH carriers, dummy bursts shall be transmitted, for other bursts nothing shall be transmitted. Alternatively the deactivation of a SDCCH can be done by transmitting bad blocks on the SACCH with the parity bits set incorrectly. This will lead to a radio link failure in the MS.

Deactivation of a TCH channel can be done by stopping transmission if it is non−BCCH.

Deactivation of a SACCH_T can be done by transmitting bad blocks on the SACCH_T with the parity bits set incorrectly. The wrong channel coding on the SACCH will lead to a radio link failure in the MS after several seconds depending on the system information messages..

Detailed Comments : The TSO is called in
TC_26_7_3_2, TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4 on a SDCCH/4/SACCH/C4 channel in downlink,
TC_26_2_4_1, TC_26_2_4_2, TC_26_8_2_1, TC_26_8_2_2, TC_26_8_2_3 on TCH/SACCH_T channel in both directions.

Test Suite Operation Definition

Operation Name : OM_FHCHK(ch : LOGICCH; ca : CCHD; ma : MA; cd : CHD; t :INTEGER; fn : FN)

Result Type : BOOLEAN

Comments :

Description

After the SS has been configured to start / change frequency hopping at a particular start time, this TSO instructs the SS to check whether the MS correctly uses the hopping frequencies on and after the expected start time according to the frequency parameters.

If ‘t‘ = 0 or 32024 <= ‘t‘ <= 42431 the operation checks that the new frequencies starts "without delay".
If 0 < ‘t‘ <= 31000 the operation checks that the new frequencies starts "on" the frame number of (X + t) mod 42432, where x = 51 * ((fn.t3 − fn.t2) MOD 26) + fn.t3 + 1326 * fn.t1.
If 31000 < ‘t‘ < 32024, or ‘t‘ < 0 or ‘t‘ > 42431
then the test has been configured incorrectly and should be re−run with a permitted value for ‘t‘.

This check is performed at the uplink RF burst level by sampling for a period of 3 seconds from the start time and should therefore be called immediately after the SS has been configured to start / change hopping. The operation returns TRUE if the MS behaviour is correct, otherwise it returns FALSE.
Note: before this TSO is called, a layer 3 message must be sent to the MS to command the MS to start / change hopping using the same frequency hopping parameters.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_FreeResource(ch :LOGICCH)

Result Type : BOOLEAN

Comments :

Description

OM_FreeResource operation instructs the lower layer emulator to release the resources which have been allocated to the logical channel "ch". After the resources are released the operation returns TRUE.

Detailed Comments : In some test cases (most of them are hanhover test cases) diffirent channels are needed while the test goes on. the purpose of the operation is to reuse lower layer resources (e.g. tranceivers), which have been allocated to the previous channel, for configing another channel required in the next testing step.

Test Suite Operation Definition

Operation Name : OM_FreqDef(st : STRT; ma : MA; ch :LOGICCH; chd: CHD; ca : CCHD; frmn: FN)

Result Type : BOOLEAN

Comments :

Description

OM_FreqDef operation passes the frequency hopping parameters for channel ‘ch‘ to lower layer emulator. The emulator starts using these frequency parameters at the frame number indicated by starting time ‘st‘. The parameter ’frmn’ indicates a reference frame number at which the first burst of the message, FREQUENCY REDEFINITION, ASSIGNMENT COMMAND or HANDOVER COMMAND, containing starting time is sent in the concerned cell.
If 0 <= (st − frmn) mod 42432 <= 31623, the indicated time is the next time when frame number mod 42432 is equal to st.
If 32024 <= (st − frmn) mod 42432 <= 42431, the indicated time has already elapsed. After completely sending out the message containing the parameter starting time the tester starts frequency hopping.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_GetFNTolerance(chtype : CH_TDMA; time_tolerance, frame_number : INTEGER)

Result Type : INTEGER

Comments : Returns the frame number tolerance as required by GSM 04.13, section 3.2 Definitions.Requires:Channel type,Time (ms) specified by the test case,Last Frame number of last L3 message block.

Description

OM_GetFNTolerance: Calculates 'Ready to Transmit' tolerance for use in Handovers from the frame number of the last layer 3 message sent to the MS, based upon the channel type. GSM 04.13: "3.2 Definitions Ready to transmit In this ETS the phrase "ready to transmit the message before time x" is defined to mean that the MS shall transmit part of that message no later than the first burst of the first TCH or control channel block that occurs after time x."GSM 04.08 Section 10.5.2.5 Channel Types: (See GSM 05.02 for TDMA frame mappings) TCH/F + ACCHs size is 26 frames TCH/H + ACCHs size is 26 frames SDCCH/4 + SACCH/C4 or CBCH (SDCCH/4) is 102 frames SDCCH/8 + SACCH/C8 or CBCH (SDCCH/8) is 102 frames GSM 05.02, section 7, Mapping of logical channels onto physical channels defines the frame numbers on which a L3 message block can be broadcast.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_GetHoaccPara(ch : LOGICCH)

Result Type : HOACC_PARA

Comments :

Description

OM_GetHoaccPara instructs the lower layer emulator to return the total number of the handover access bursts received on channel 'ch', the observed minimum and maximum power levels in dBm modulo 256 and the observed minimum and maximum timing advance in bits modulo 256.The lower layer emulator starts the observation of handover access bursts as soon as sending out a HANDOVER COMMAND message. The TSO returns an accumulative result of the observation when it is called.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_GetL1Hd(ch : LOGICCH)

Result Type : L1HD

Comments :

Description

OM_GetL1Hd instructs the L 2 emulator to read the L 1 header of the next SACCH frame received on channel 'ch' and return this value.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_GetTxFn(ch : LOGICCH)
Result Type : FN
Comments :

Description

This operation returns the frame number (FN modulo 42432) on which the last L2 message was sent on logic channel 'ch' (previously primed by operation OM_NextTxFn).

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_LowerLayerFail(ch : LOGICCH)
Result Type : BOOLEAN
Comments :

Description

This operation is to force the lower layer failure, then it returns.

The lower layer failure can be any one of layer 1 failures or layer 2 failures.

- layer 1 failure, see GSM 05.08;
- layer 2 failure, see GSM 04.06.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_NextTxFn(ch : LOGICCH ; ft : INTEGER)
Result Type : BOOLEAN
Comments :

Description

This primes the lower emulator to return the Frame Number (modulas 42432) of the last Layer 2 frame type 'ft', to be transmitted on Logic channel 'ch' prior to a call to OM_GetTxFn.

Parameter 'ft' (frame type) :−
1− I
2− RR
3− RNR
4− REJ
5− SABM
6− DM
7− UI
8− DISC
9− UA

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_NoL2Ack(i : INTEGER; ch: LOGICCH)
Result Type : BOOLEAN
Comments :

Description

When the parameter i>0 the layer 2 emulator is put into a special operation mode then the TSO returns. In this special mode the layer 2 emulator shall not aknowledge the 'i'th occurence of the L2 I frame which has the more data bit "M" = 0 on the channel 'ch'.
The layer 2 emulator resumes normal operation when
− either the TSO is called again with i = 0 on the same 'ch',
− or a data link SABM message is received on the 'ch'.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_NotAckSetup(ch : LOGICCH)
Result Type : BOOLEAN
Comments :

Description

This operation puts the layer 2 emulator into a special operation mode then returns. In this special mode the layer 2 emulator will not acknowledge the last L 2 frame which carries the SETUP message, and the layer 2 emulator resumes normal operation after this L 2 frame.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_NoUAforDISC(ch : LOGICCH)
Result Type : BOOLEAN
Comments :

Description

OM_NoUAforDISC and OM_ResumUAforDISC are a pair of TSOs. OM_NoUAforDISC forces the L2 emulator of the tester to enter a specific mode. OM_ResumUAforDISC resumes the L2 emulator to a normal L2 operational mode.
In the specific mode on receiving a DISC on the channel 'ch', the L2 emulator
− does not respond with a UA,
− remains in the multiple−frame established state,
− indicates that the DISC has been received (by means of subsequent DL_RELEASE_INDICATION ASPs).
Then the TSO returns TRUE.

Detailed Comments : The TSO is called in TC_26_6_12_2 and TC_26_6_12_4.

Test Suite Operation Definition

Operation Name : OM_PgFill(cellid : CellID ; msg : PG1_RQ_PDU)
Result Type : BOOLEAN
Comments : The result returned by the operation is not used.

Description

OM_PgFill operation sets up the contents of paging filling frame to be sent on all paging subchannels continuously. If the contents of paging filling frame in cell ‘cellid‘ have not been set up, the operation sets the contents to ‘msg‘. If paging filling frame in cell ‘cellid‘ has been set up, the operation changes the paging filling message to ‘msg‘. After the required action has been taken it returns.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_Reactivate(ch1, ch2 : LOGICCH)
Result Type : BOOLEAN
Comments :

Description

The TSO OM_Reactivate reactivates the logical channels ‘ch1‘ and ’ch2’ which were previously deactivated by the OM_Deactivate. Then the TSO returns TRUE. The ch1 is an SDCCH, the ch2 is the associated SACCH.

Reactivation of deactivated SDCCH/SACCH channels means to restart normal transmissions both on the SDCCH and the associated SACCH as specified in the ETS 300 574 (GSM 05.02).

Detailed Comments : The TSO is called in TC_26_7_3_2, TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4 on the SDCCH/4 / SACCH/C4 channels.

Test Suite Operation Definition

Operation Name : OM_ReturnFn(ch : LOGICCH)
Result Type : FN
Comments :

Description

OM_ReturnFn operation returns the frame number (FN modulo 42432) on which the last L3 message was sent on logic channel ‘ch‘.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_ResumUAforDISC(ch : LOGICCH)
Result Type : BOOLEAN
Comments :

Description

OM_NoUAforDISC and OM_ResumUAforDISC are a pair of TSOs. OM_NoUAforDISC forces the L2 emulator to enter a specific mode. OM_ResumUAforDISC resumes the L2 emulator to a normal L2 operational mode.
OM_ResumeUAforDISC cancels the effect of OM_NoUAforDISC, returning L2 on the channel ’ch’ to normal operation in the multiple−frame established state.
Then the TSO returns TRUE.

Detailed Comments : The TSO is called in TC_26_6_12_2 and TC_26_6_12_4.

Test Suite Operation Definition

Operation Name : OM_SendSMSCBWhilePaging(ch : LOGICCH)
Result Type : BOOLEAN
Comments : The result returned by the operation is not used.

Description

The TSO makes the lower layers send the second SMSCB message at the same time as the MS is paged.
This shall be achieved by paging the MS immediately after the first block of the CB message has been sent. The SS shall ensure that the page is transmitted on the radio interface prior to the transmission of the 4th block of the CB message.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_SendNextOn(ch : LOGICCH; fn : FN)
Result Type : BOOLEAN
Comments :

Description

OM_SendNextOn operation sets the lower layer emulator into a special operation mode then returns. In the special mode the lower layer emulator sends the next L3 message on the indicated frame number ‘fn‘ on the ’ch’ channel. After the next L3 message is sent, the lower layer resumes normal operation automatically.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_SendNextOnHO(ch : LOGICCH; cnt : INTEGER)
Result Type : BOOLEAN
Comments : Used in non−synchronised handover tests

Description

OM_SendNextOnHO operation sets the lower layer emulator into a special operation mode then returns. In the special mode the lower layer emulator waits for the number of Handover bursts specified by the parameter ’cnt’ on channel ’ch’ before sending the next L3 message. After the message is sent, the lower layer resumes normal operation automatically.The TSO does not affect any TTCN receiving event.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_StartMsrReport(ch : LOGICCH)
Result Type : BOOLEAN
Comments : The result returned by the operation is not used.

Description

The operation starts the reporting of received MEASUREMENT REPORT message to layer 3 emulator, then it returns with value TRUE.
Measurement Reports shall be disable by default. By default means that the tester filters them out from the TTCN in−buffer. This operation enables the reports entering the TTCN in−buffer. The OM_StopMsrReport operation disables the reports entering the TTCN in−buffer. When starting each test case, the measurement reports are filtered out by default.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_StopAllBCCH(cell1, cell2, cell3, cell4, cell5, cell6, cell7, cell8 : CellID)

Result Type : BOOLEAN

Comments : The result returned by the operation is not used.

Description

The TSO stops the RF transmission on all BCCH channels including dummy bursts in the indicated cells, but keeps the uplink CCCH reception active. After all transmission have been stopped the TSO returns TRUE.
If a cell in the parameter list is not in use a "dummy" value needs to be assigned to it by the calling test case.
The TSO is called in TC_26_3_3.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_StopCell(cell : CellID)

Result Type : BOOLEAN

Comments : The result returned by the operation is not used.

Description

The TSO stops completely all RF transmission of the specific cell ‘cell‘, including the dummy bursts on other slots. After all RF transmission have been stopped the TSO returns TRUE.
The cell shall be deleted from the lower layer tester and therefore if the cell ’cell’ is required again by the calling test case it needs to be re−configured.
The TSO is called in TC_26_3_4, TC_26_6_6_1, TC_26_7_4_2_2_1, TC_26_7_4_2_2_2, TC_26_7_4_6, TC_31_6_2_3.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OM_StopMsrReport(ch : LOGICCH)

Result Type : BOOLEAN

Comments : The result returned by the operation is not used.

Description

The operation stops the reporting of received MEASUREMENT REPORT message to layer 3 emulator, after measurement report stops it returns with value TRUE.
Measurement Reports shall be disable by default. By default means that the tester filters them out from the TTCN in−buffer. This operation disables the reports entering the TTCN in−buffer. The OM_StartMsrReport operation enables the reports entering the TTCN in−buffer. When starting each test case, the measurement reports are filtered out by default.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ACMIncCHK(para : IA5String)
Result Type : BOOLEAN
Comments :

Description

the OO_ACMIncCHK operation requests (e.g. from the control console of the test system) the test operator to read the value of ACM on SIM and check the increment of the value. Then the operator informs the test system whether the increment is as description 'para', if it is as the description the operation returns TRUE, otherwise returns FALSE.

The value of ACM can be read either via MMI or by removing the SIM and using SIM reader.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ACMReading
Result Type : BOOLEAN
Comments :

Description

the OO_ACMReading operation requests (e.g. from the control console of the test system) the test operator to read and note the value of ACM on SIM. After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

The value of ACM can be read either via MMI or by removing the SIM and using SIM reader.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ACMSetting
Result Type : BOOLEAN
Comments :

Description

the OO_ACMSetting operation requests (e.g. from the control console of the test system) the test operator to reset the ACM to zero and set the ACMmax to 2 units. After the operator finishes the action and informs the test system it returns TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_AddPwrAmp
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to add power amplification at the Mobile Station under test.
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_AltIndCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the alerting indication is generated. If the operator informs (e.g. from the control console of the test system) the test system that the alerting indication is generated, the operation returns TRUE. If the operator informs the test system that the alerting indication is not generated, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CalledNumCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the called party number is correctly displayed on the mobile station. If the operator informs (e.g. from the control console of the test system) the test system that the display is correct, the operation returns TRUE. If the operator informs the test system that the display is wrong, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CalledPtyNumCHK(num : CDPN)
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the called party number ‘num‘ is the one that was entered into the MS. If the operator informs (e.g. from the control console of the test system) the test system that the number is correct, the operation returns TRUE. If the operator informs the test system that the number is wrong, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckAllSMPresentBut4th
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check if the mobile station under test has stored all short messages during the test case but not the 4th one which should have been replaced by the 5th(cf. GSM 11.10, clause 34.2.7.4). The messages are displayed. Then the operation returns.
TRUE: All SM present but not the 4th
FALSE: 4th SM present or 1st, 2nd, 3rd or 5th missing.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckCBSMReceived(NumbOfIA5chara: INTEGER; msg:SMSCBpack)

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check whether the MS under test has correctly received the cell broadcast short message represented by 'msg' . Then the TSO returns
TRUE: if the CBSM has been correctly received,
FALSE: if non or an incorrect CBSM has been received.
The TSO needs to convert the 'msg' into IA5 string according to the packing character rules specified in the section 6.1.2 of ETS 300 628 (GSM 03.38). The 'NumbOfIA5chara' indicates the number of IA5 characters in the 'msg'.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckMCEFOnSIM

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check if the Memory Capacity Exceeded Flag has been set on the SIM simulator and to inform the test system of the result of the checking. If the checking succeds the operation returns TRUE, FALSE otherwise.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckMCEFOnSIMUnset

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check if the Memory Capacity Exceeded Flag has been unset on the SIM simulator and to inform the test system of the result of the checking. If the checking succeds the operation returns TRUE, FALSE otherwise.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckMessageDisplayed(NumbOfIA5chara:INTEGER; msg:OCTETSTRING)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check if the mobile station under test indicates that an SM has arrived. If the MS provides the functionality to display MT messages, it is checked that the message contents represented by 'msg' is correctly displayed. Then the operation returns
TRUE: if the MS indicates SM reception (and displays correct message),
FALSE: if the MS does not indicate SM reception (or displays incorrect message).
The TSO needs to convert the 'msg' into IA5 string according to the packing character rules specified in the section 6.1.2 of ETS 300 628 (GSM 03.38). The 'NumbOfIA5chara' indicates the number of IA5 characters in the 'msg'.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_CheckUssdStringDisplayed(strg: IA5String)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check if the mobile station under test displays the Ussd String 'strg'. Then the operation returns.
TRUE: MS displays the correct Ussd String.
FALSE: MS does not display the correct Ussd String.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ConnectSIMSimulator
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to connect the SIM simulator to the mobile station under test.
For the contents of the SIM simulator the operator refers to the initial conditions of the test case in GSM 11.10−1.
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_DepressEndKey
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to depress the 'END' key of the Mobile Stations keypad, then returns.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_DialCalledNum
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to dial the called party number at the Mobile Station under test but not press the "SEND" key (i.e. not initiate the call setup).
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_DisplaySMAndSendReplySM(n, NumbOfIA5chara: INTEGER; msg:OCTETSTRING)
Result Type : OCTETSTRING
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to display the 'n'−th short message received in the arriving order and to check whether the short message contents represented by 'msg' is correctly displayed.
Then the TSO asks the operator to send a reply short message from the mobile.
After the operator finishes the action, the operation returns with the message contents sent in OCTETSTRING.
The TSO needs to convert the 'msg' into IA5 string and the IA5 text entered by the operator into OCTETSTRING according to the packing character rules specified in the section 6.1.2 of ETS 300 628 (GSM 03.38). The 'NumbOfIA5chara' indicates the number of IA5 characters in the 'msg'.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_DTMFIndCHK(character : IA5String)
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the 'character' is indicated by the DTMF indicator of the MS. If the operator informs (e.g. from the control console of the test system) the test system that the MS does not give the indication of 'character', the operation returns FALSE. If the operator informs the test system that the MS gives the indication, the operation returns TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_EmptyMessageStorage
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to empty the message storage of the mobile station under test.
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_EnterPswd(pswd : IA5String)
Result Type : BOOLEAN
Comments :

Description

This TSO displays a message on the control console to inform the operator that he is to enter a given password (the actual password is given by 'pswd') on the mobile. The operation waits for the operator to acknowledge the request, which may be done before or after entering the password into the mobile, and then returns the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_HookOff
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to answer the mobile terminating call at the Mobile Station under test.
This operation waits for the operator to acknowledge the request which may be done before or after the call has been answered and then returns the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_IFsetup_Telephony
Result Type : BOOLEAN
Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or configuration of the MS in such a way that the MS is able to successfully receive the call for telephony service. If the MS supports both telephony without immediate connection mode and telephony with immediate connection mode, set the MS in telephony without immediate connection mode. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single−numbering scheme MT testing.

Detailed Comments : used for TS11 and TS12

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS2xorBS3x_MO(srv : SERVICES; itc, sacp : B_3; ce : B_2; rate : IA5String)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS, when trigged, is able to initiate the call for the BS2x or BS3x service 'srv' with the specified itc, sacp, ce values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single−numbering scheme MT testing.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT paramters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

The possible values are:
1) srv −−−−− basic service
− C_Async300 Basic Service 21, Asynchronous 300 bps
− C_Async1200 Basic Service 22, Asynchronous 1.2 kbps
− C_Async120075 Basic Service 23, Asynchronous 1200/75 bps
− C_Async2400 Basic Service 24, Asynchronous 2.4 kbps
− C_Async4800 Basic Service 25, Asynchronous 4.8 kbps
− C_Async9600 Basic Service 26, Asynchronous 9.6 kbps
− C_Sync1200 Basic Service 31, Synchronous 1.2 kbps
− C_Sync2400 Basic Service 32, Synchronous 2.4 kbps
− C_Sync4800 Basic Service 33, Synchronous 4.8 kbps
− C_Sync9600 Basic Service 34, Synchronous 9.6 kbps

2) itc −−−−−− information transfer capability
− '001'B unrestricted digital information
− '010'B 3.1 kHz audio, ex PLMN

3) sacp −−−− signalling access protocol
− '001'B I.440/450
− '010'B X.21
− '101'B X.28 − non dedicated PAD
− '110'B X.32

4) ce −−−−−− connection element
− '00'B transparent
− '01'B non transparent

5) rate −−−−− channel rate
− C_Full full rate channel
− C_Half half rate channel

Detailed Comments : Used for BS21, BS22, BS23, BS24, BS25, BS26, BS31, BS32, BS33, BS34

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS4x_MO(srv : SERVICES; ce : B_2; rate : IA5String)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, orthe MS configuration in such a way that the MS, when trigged, is able to initiate the call for the BS4x service ‘srv‘ with specified ur and ce values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

The possible values are:
1) srv −−−−− basic service
− C_PAD300 Basic Service 41, PAD access 300 bps
− C_PAD1200 Basic Service 42, PAD access 1.2 kbps
− C_PAD120075 Basic Service 43, PAD access 1200/75 bps
− C_PAD2400 Basic Service 44, PAD access 2.4 kbps
− C_PAD4800 Basic Service 45, PAD access 4.8 kbps
− C_PAD9600 Basic Service 46, PAD access 9.6 kbps

2) ce −−−−−− connection element
− ’00’B transparent
− ’01’B non transparent

3) rate −−−−− channel rate
− C_Full full rate channel
− C_Half half rate channel

Detailed Comments : Used for BS41, BS42, BS43, BS44, BS45, BS46

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS5x_MO(srv : SERVICES; ur : B_4; rate : IA5String)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, orthe MS configuration in such a way that the MS, when trigged, is able to initiate the call for the BS5x service ‘srv‘ with the specifyied ur value. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

The possible values are:
1) srv −−−−− basic service
− C_Packet2400 Basic Service 51, Packet access 2.4 kbps
− C_Packet4800 Basic Service 52, Packet access 4.8 kbps
− C_Packet9600 Basic Service 53, Packet access 9.6 kbps

2) ur −−−−−− user rate
− ’0011’B 2400 bit/s
− ’0100’B 4800 bit/s
− ’0101’B 9600 bit/s

3) rate −−−−− channel rate
− C_Full full rate channel
− C_Half half rate channel

Detailed Comments : Used for BS51, BS52, BS53

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS61orBS81_MO(srv : SERVICES; ur : B_4; sa : B_1; ce : B_2; rate : IA5String)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS, when trigged, is able to initiate the call for BS61 or BS81 with the specified ur, ce and sa values, and the first bearer capability is speech. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single−numbering scheme MT testing.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

The possible values are:
1) srv −−−−− basic service
− C_AltSpchData Basic Service 61, Alternatie Speech/data
− C_SpchData Basic Service 81, Speech followed by data

2) ur −−−−−− user rate
− ’0001’B 300 bit/s
− ’0010’B 1200 bit/s
− ’0111’B 1200/75 bit/s
− ’0011’B 2400 bit/s
− ’0100’B 4800 bit/s
− ’0101’B 9600 bit/s

3) sa −−−−−− synchronous/asynchronous
− ’0’B synchronous
− ’1’B asynchronous

4) ce −−−−−− connection element
− ’00’B transparent
− ’01’B non transparent

5) rate −−−−− channel rate
− C_Full full rate channel
− C_Half half rate channel

Detailed Comments : used for BS61 and BS81

Test Suite Operation Definition

Operation Name : OO_IFsetup_TS6x_MO(srv : SERVICES; ur : B_4; ce : B_2; rate : IA5String)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS, when trigged, is able to initiate the call for TS61 and TS62 with the specified ur and ce values, and the first bearer capability is speech. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single−numbering scheme MT testing.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

The possible values are:
1) srv −−−−− basic service
− C_AltSpchFax Teleservice 61, Alternatie Speech and Facsimile group 3
− C_AutoFax Teleservice 62, Automatic Facsimile group 3

2) ur −−−−−− user rate
− ’0011’B 2400 bit/s
− ’0100’B 4800 bit/s
− ’0101’B 9600 bit/s

3) ce −−−−−− connection element
− ’00’B transparent
− ’01’B non transparent

4) rate −−−−− channel rate
− C_Full full rate channel
− C_Half half rate channel

Detailed Comments : used for TS61 and TS62

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS2x_MT(srv : SERVICES; itc : B_3)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for the BS2x service ‘srv‘ with the specified itc value. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT paramters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

Detailed Comments : Used for BS21, BS22, BS24, BS25, BS26

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS3x_MT(srv : SERVICES; itc, sacp : B_3)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, orthe MS configuration in such a way that the MS is able to successfully receive the call for the BS3x service ‘srv‘ with specified itc and sacp values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

Detailed Comments : Used for BS31, BS32, BS33, BS34

Test Suite Operation Definition

Operation Name : OO_IFsetup_BS61orBS81_MT(srv : SERVICES; ur : B_4; sa : B_1)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for BS61 or BS81 with the specified ur and sa values. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

Detailed Comments : used for BS61 and BS81

Test Suite Operation Definition

Operation Name : OO_IFsetup_TS6x_MT(srv : SERVICES; ur : B_4)

Result Type : BOOLEAN

Comments :

Description

This TSO requests (e.g. from the control console of the test system) the test operator to setup the external interface, or the MS configuration in such a way that the MS is able to successfully receive the call for TS61 and TS62 with the specified ur value. After the operator finishes the required action and informs the test system, the TSO returns with value TRUE.

Three negotiable parameters, number of stop bit, number of data bit, parity information, are asked as global IXIT parameters for all TE configurations. If necessary, the test operator refers to the manual provided by manufacturer to configure the MS.

Detailed Comments : used for TS61 and TS62

Test Suite Operation Definition

Operation Name : OO_InCallModi(srv : SERVICES)

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to initiate a in−call modification at the Mobile Station under test, which is triggered by the calling tone identification (CNG) received by the MS, for the basic service 'srv', then returns TRUE. The calling test step can pass the 'srv' value either as TSPX or constant to the TSO.

The possible service values include (see also test suite constant declarations):
1) Teleservices
− C_Telephony
− C_EmgCall
− C_AltSpchFax
− C_AutoFax

2) Bearer services
− C_Async300, C_Async1200, C_Async120075, C_Async2400, C_Async4800, C_Async9600
− C_Sync1200, C_Sync2400, C_Sync4800, C_Sync9600
− C_PAD300, C_PAD1200, C_PAD120075, C_PAD2400, C_PAD4800, C_PAD9600
− C_Packet2400, C_Packet4800, C_Packet9600
− C_AltSpchData
− C_SpchData

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_InitCall(srv : SERVICES)

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to initiate an MS originating call for the basic service 'srv', then returns TRUE. The calling test step can pass the 'srv' value either as TSPX or constant to the TSO. The necessary MS configuration has been done in the corresponding TSO OO_IFsetup_xx...xx_MO before this TSO is called.

The possible service values include (see also test suite constant declarations):

1) Teleservices

− C_Telephony −−−−− TS11
− C_EmgCall −−−−− TS12
− C_AltSpchFax −−−−− TS61
− C_AutoFax −−−−− TS62

− C_Short_Message_MT/PP −−−− TS21
− C_Short_Message_MO/PP −−−− TS22
− C_Short_Message_CB −−−− TS23

2) Bearer services

− C_Async300 −−−−− BS21
− C_Async1200 −−−−− BS22
− C_Async120075 −−−−− BS23
− C_Async2400 −−−−− BS24
− C_Async4800 −−−−− BS25
− C_Async9600 −−−−− BS26
− C_Sync1200 −−−−− BS31
− C_Sync2400 −−−−− BS32
− C_Sync4800 −−−−− BS33
− C_Sync9600 −−−−− BS34
− C_PAD300 −−−−− BS41
− C_PAD1200 −−−−− BS42
− C_PAD120075 −−−−− BS43
− C_PAD2400 −−−−− BS44
− C_PAD4800 −−−−− BS45
− C_PAD9600 −−−−− BS46
− C_Packet2400 −−−−− BS51
− C_Packet4800 −−−−− BS52
− C_Packet9600 −−−−− BS53
− C_AltSpchData −−−−− BS61
− C_SpchData −−−−− BS81

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_InitNonCallSS

Result Type : BOOLEAN

Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to initiate a non call related supplementary service which is supported by the MS.
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_InitSS(action: IA5String)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to initiate the required supplementary service by the MMI sequence ‘action‘.
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_InServiceCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the Mobile Station under test is in normal service state ("Idle, updated")−− listening to CCCH and BCCH and with U1 UPDATED status. If the operator informs (e.g. from the control console of the test system) the test system that the MS does not give any service indication, the operation returns FALSE. If the operator informs the test system that the MS gives service indication, the operation returns TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_Key
Result Type : BOOLEAN
Comments :

Description

This operation returns TRUE if a key of the SS’ keyboard has been pressed. Otherwise it returns FALSE.
After OO_PressKeyWhenInService was called, the TSO is then continuously called until the test operator hits a key or a timer expires.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_MptyCall
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to enter MultiParty MMI command at the Mobile Station under test, then it returns with the value TRUE after the operator finishes the action and informs the test system.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_MSSetupStoreClass1SMInMEMemory
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to setup the MS under test to store class 1 SM in the ME memory (by way of MMI, as described in PICS/PIXIT statement).
After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PLMNsCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the Mobile Station presents a list of available PLMNs. The list shall include the MNC and MCC of cells 1 to 7, but not cell 8 (for GSM900) or cells 1 to 6, but not cell 7 (for DCS1800). If the operator informs (e.g. from the control console of the test system) the test system that the MS correctly presents the list, the operation returns TRUE. If the operator informs the test system that the list is incorrect, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PLMNselModeAuto
Result Type : BOOLEAN
Comments :

Description

This operation switches the PLMN selection mode of the MS to automatic selection. After correctly switching of the mode the operation returns TRUE otherwise FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PLMNselModeMan
Result Type : BOOLEAN
Comments :

Description

This operation switches the PLMN selection mode of the MS to manual selection. After correctly switching of the mode the operation returns TRUE otherwise FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PowerUp
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to power up the Mobile Station under test and to inform after the test system, then it returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PowerDown
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to power down the Mobile Station under test and to inform after the test system, then it returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_PressKeyWhenInService
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to press any key when the MS shows the service indicator, then returns. The return value is always TRUE.
Working with OO_Key together, the TSO displays a prompt to the test operator and then immediately returns.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_RecallAndDisplaySM(NumbOfIA5chara: INTEGER; msg: OCTETSTRING)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to recall and display an SM stored in the ME of the MS under test e.g. by means of the MMI. Then the operator checks whether the short message contents represented by 'msg' is correctly displayed. The TSO returns
TRUE: if SM can be recalled and displayed correctly in comparison with the 'msg',
FALSE: if SM can not be recalled or displayed, or displayed incorrectly in comparison with the 'msg'.
The TSO needs to convert the 'msg' into IA5 string according to the packing character rules specified in the section 6.1.2 of ETS 300 628 (GSM 03.38). The 'NumbOfIA5chara' indicates the number of IA5 characters in the 'msg'.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_RemoveOneSM
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to remove one of the SM from the message store and then to inform the test system. It does not matter which short message has been removed. After that the operation returns with value TRUE. The returned value is not used in the ATS.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_RemvPwrAmp
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to remove the added power amplification at the Mobile Station under test and to inform after the test system, then the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_RFoutputCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the Mobile Station produces any RF output. If the operator informs (e.g. from the control console of the test system) the test system that the MS does not produce any RF output, the operation returns FALSE. If the operator informs the test system that the MS produces RF output, the operation returns TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SelPLMN(par_plmn:OCTETSTRING)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to select the given PLMN in par_plmn manually, and to inform after the test system then the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SendMOShortMessage
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to send a short message from the mobile station under test.
The operation waits for the operator to acknowldge the request which may be done before or after sending the MO Short Message, and then returns the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SendSMSCOMMANDDel
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to send a SMS COMMAND message from the mobile station under test containing requiring to delete the previouly submited SM and then to inform the test system. Then, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SendSMSCOMMANDEnq
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to send a SMS COMMAND message from the mobile station under test containing an enquiry about the previouly submited SMand then to inform the test system. Then, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SetRefuseCall
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to enable call refusal on the MS. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ShortKeyDepr(ch : IA5String)
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to cause a DTMF tone to be generated, e.g. by short depression of the key ‘ch‘ on the Mobile Station under test. The operation waits for the operator to acknowldge the request which may be done before or after generating the DTMF tone, and then returns the value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIMIns
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to insert the SIM card into the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIM2Ins
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to insert the SIM card 2 into the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.
The SIM Card 2 shall contain the following parameter values, which are different from dafault values(SIM Card 1):
IMSI= ’001011234’
HPLMN_search_period=6min.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIM3Ins
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to insert the SIM card 3 into the Mobile Station under test and turn the MS power on, after the test operator finishes the action and informs the test system it returns with value TRUE.
The SIM Card 3 shall contain fixed dialling number allocated and activated.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIMRmv
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to remove the SIM card from the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIMSimulAttIndOK
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check whether the SIM simulator indicates an attempt made by the ME to store the short message in the SIM. The SIM simulator returns the status response "OK" ('90 00"). Then returns.
Attempt indicated: TRUE
Attempt NOT indicated: FALSE

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SIMSimulAttIndMemProblem
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to check whether the SIM simulator indicates an attempt made by the ME to store the short message in the SIM. The SIM simulator returns the status response "Memory Problem" ('92 40"). Then returns.
Attempt indicated: TRUE
Attempt NOT indicated: FALSE

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SSresultCHK(svc : INTEGER)
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check the user indication of the result of the supplementary service ' svc'. If the operator informs (e.g. from the control console of the test system) the test system that the indication is correct, the operation returns TRUE. If the operator informs the test system that the indication is wrong, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SwitchOn
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to switch on (or if there is no switch then to restore the power to) the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_SwitchOff
Result Type : BOOLEAN
Comments :

Description

This operation requests (e.g. from the control console of the test system) the test operator to switch off (or if there is no switch then to remove the power from) the Mobile Station under test. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, the operation returns with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_TCHThroConnCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the TCH is through connected. The SS has to generate a noise pattern so that the operator can check this. If the operator informs (e.g. from the control console of the test system) the test system that the TCH is through connected, the operation returns TRUE. If the operator informs the test system that the TCH is not through connected, the operation returns FALSE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_TermCall
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to terminate the ongoing call. After the operator completes the action and informs (e.g. from the control console of the test system) the test system, it returns TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_TguardTimeOut
Result Type : BOOLEAN
Comments :

Description

This operation informs (e.g. from the control console of the test system) the test operator that the T_guard timer has expired during the test case leading to an inconclusive or fail verdict and returns immediately with value TRUE.

Detailed Comments :

Test Suite Operation Definition

Operation Name : OO_ToneStopCHK
Result Type : BOOLEAN
Comments :

Description

This operation first requests (e.g. from the control console of the test system) the test operator to check whether the MS stops the tone generation If the operator informs (e.g. from the control console of the test system) the test system that the MS does not stop tone generation, the operation returns FALSE. If the operator informs the test system that the MS stops tone generation, the operation returns TRUE.

Definition of "tone generation":

−During MO call: MS generates alerting tone/presents inband information sent by the network.
−During MT call: MS generates ringing tone.

Detailed Comments :

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPC_24DataF	BOOLEAN	PICS Table A.25 Item 12	2.4 k full rate data mode supported − must be TRUE if TSPC_24DataH = TRUE
TSPC_24DataH	BOOLEAN	PICS Table A.25 Item 13	2.4 k half rate data mode supported
TSPC_48DataF	BOOLEAN	PICS Table A.25 Item 14	4.8 k full rate data mode supported − must be TRUE if TSPC_48DataH = TRUE
TSPC_48DataH	BOOLEAN	PICS Table A.25 Item 15	4.8 k half rate data mode supported
TSPC_96Data	BOOLEAN	PICS Table A.25 Item 16	9.6 k full rate data mode supported
TSPC_Feat_A51	BOOLEAN	PICS Table A.2 Item 17	ciphering algorithm A5/1 supported
TSPC_Feat_A52	BOOLEAN	PICS Table A.2 Item 18	ciphering algorithm A5/2 supported
TSPC_AddCharSet	BOOLEAN	PICS Table A.25 Item 47	A, B, C, D chars supported
TSPC_AddInfo_PseudoSynch	BOOLEAN	PICS	Pseudo synchronised handover supported
TSPC_AlertInd	BOOLEAN	PICS Table A.25 Item 49	alerting indication to the user supported
TSPC_SvcOnTCH	BOOLEAN	PICS Table A.25 Item 22	at least one service on traffic channel supported
TSPC_SMS	BOOLEAN	PICS Table A.25 Item 31	at least one short message service supported
TSPC_SS	BOOLEAN	PICS Table A.25 Item 29	at least one supplementary service supported
TSPC_AutoAutoMode	BOOLEAN	PICS Table A.25 Item 48	automatically enter automatic selection of PLMN mode supported
TSPC_BasCharSet	BOOLEAN	PICS Table A.25 Item 46	Chars 0−9, *, # supported
TSPC_CalledNumDisp	BOOLEAN	PICS Table A.2 Item 1	called number display supported
TSPC_DCS	BOOLEAN	PICS Table A.1 Item 3	testing DCS1800
TSPC_DetachOnPwrDn	BOOLEAN	PICS Table A.25 Item 38	detach on power down supported
TSPC_DetachOnSIMRmv	BOOLEAN	PICS Table A.25 Item 39	detach on SIM remove supported
TSPC_DispRcvSMS	BOOLEAN	PICS Table A.25 Item 34	display of received SMS supported
TSPC_DualRate	BOOLEAN	PICS Table A.25 Item 23	dual rate channel types supported
TSPC_EGSM	BOOLEAN	PICS Table A.1 Item 2	both standard (PGSM) and extended GSM band supported
TSPC_EmgOnly	BOOLEAN	PICS Table A.25 Item 27	the only circuit switched basic service is emergency call
TSPC_followOnReq	BOOLEAN	PICS Table A.25 Item 53	follow−on request procedure supported
TSPC_HalfRateData	BOOLEAN	PICS Table A.25 Item 6	at least one half rate data service supported
TSPC_HalfRateSpeech	BOOLEAN	PICS Table A.25 Item 3	half rate speech mode supported

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPC_InCallMod	BOOLEAN	PICS Table A.25 Item 52	In−Call modification supported
TSPC_NoimmConn	BOOLEAN	PICS Table A.25 Item 51	at least one service not support immediate connection
TSPC_Feat_FND	BOOLEAN	PICS Table A.2 Item 21	FND feature supported
TSPC_NonCallSS	BOOLEAN	PICS Table A.25 Item 30	non call related supplementary service supported
TSPC_MTsvc	BOOLEAN	PICS Table A.25 Item 19	at least one MT circuit switched basic service supported
TSPC_MOsvc	BOOLEAN	PICS Table A.25 Item 20	at least one MO circuit switched basic service supported
TSPC_PGSM	BOOLEAN	PICS Table A.1 Item 1	only standard GSM band supported (not EGSM)
TSPC_RefusalCall	BOOLEAN	PICS Table A.25 Item 54	refusal of call supported
TSPC_ReplaceSMS	BOOLEAN	PICS Table A.25 Item 33	replace SMS supported
TSPC_ReplyProc	BOOLEAN	PICS Table A.25 Item 32	(SMS) reply procedures supported
TSPC_RFAmp	BOOLEAN	PICS Table A.25 Item 55	RF amplification supported
TSPC_SDCCHOnly	BOOLEAN	PICS Table A.25 Item 21	only SDCCH supported
TSPC_Serv_SS_AoCC	BOOLEAN	PICS Table A.5 Item 14	Advice of Charge (Charging) SS supported
TSPC_Serv_SS_BAIC	BOOLEAN	PICS Table A.5 Item 18	Barring of All Incoming Calls SS supported
TSPC_Serv_SS_BI	BOOLEAN	PICS	BI SS supported
TSPC_Serv_SS_BICRoam	BOOLEAN	PICS Table A.5 Item 19	Barring of Incoming Calls when Roaming Outside the Home PLMN Country SS supported
TSPC_Serv_SS_BAOC	BOOLEAN	PICS Table A.5 Item 15	Barring of All Outgoing Calls SS supported
TSPC_Serv_SS_BOIC	BOOLEAN	PICS Table A.5 Item 16	Barring of Outgoing International Calls SS supported
TSPC_Serv_SS_BOICexHC	BOOLEAN	PICS Table A.5 Item 17	Barring of Outgoing International Calls except those directed to the Home PLMN Country SS supported
TSPC_Serv_SS_CFB	BOOLEAN	PICS Table A.5 Item 6	Call Forwarding on Mobile Subscriber Busy SS supported
TSPC_Serv_SS_CFNRy	BOOLEAN	PICS Table A.5 Item 7	Call Forwarding on No Reply SS supported
TSPC_Serv_SS_CFNRc	BOOLEAN	PICS Table A.5 Item 8	Call Forwarding on Mobile Subscriber Not Reachable SS supported
TSPC_Serv_SS_CFU	BOOLEAN	PICS Table A.5 Item 5	Call Forwarding Unconditional SS supported
TSPC_Serv_SS_HOLD	BOOLEAN	PICS Table A.5 Item 10	Call Hold SS supported
TSPC_Serv_SS_MPTY	BOOLEAN	PICS Table A.5 Item 11	multiparty SS supported

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPC_Serv_SS_unstruct	BOOLEAN	PICS	USSD supported
TSPC_Serv_TS11	BOOLEAN	PICS Table A.3 Item 1	telephony supported
TSPC_Serv_TS12	BOOLEAN	PICS Table A.3 Item 2	emergency call supported
TSPC_Serv_TS21	BOOLEAN	PICS Table A.3 Item 3	SMS MT/PP supported
TSPC_Serv_TS22	BOOLEAN	PICS Table A.3 Item 4	SMS MO/PP supported
TSPC_Serv_TS23	BOOLEAN	PICS Table A.3 Item 5	SMS cell broadcast supported
TSPC_Serv_TS61	BOOLEAN	PICS	alternate speech and G3 fax (TS61) supported
TSPC_Serv_TS62	BOOLEAN	PICS	automatic G3 fax (TS62) supported
TSPC_Serv_BS21	BOOLEAN	PICS Table A.4 Item 1	data circuit duplex async 300 bit/s supported
TSPC_Serv_BS22	BOOLEAN	PICS Table A.4 Item 2	data circuit duplex async 1200 bit/s supported
TSPC_Serv_BS23	BOOLEAN	PICS Table A.4 Item 3	data circuit duplex async 1200/75 bit/s supported
TSPC_Serv_BS24	BOOLEAN	PICS Table A.4 Item 4	data circuit duplex async 2400 bit/s supported
TSPC_Serv_BS25	BOOLEAN	PICS Table A.4 Item 5	data circuit duplex async 4800 bit/s supported
TSPC_Serv_BS26	BOOLEAN	PICS Table A.4 Item 6	data circuit duplex async 9600 bit/s supported
TSPC_Serv_BS31	BOOLEAN	PICS Table A.4 Item 7	data circuit duplex sync 1200 bit/s supported
TSPC_Serv_BS32	BOOLEAN	PICS Table A.4 Item 8	data circuit duplex sync 2400 bit/s supported
TSPC_Serv_BS33	BOOLEAN	PICS Table A.4 Item 9	data circuit duplex sync 4800 bit/s supported
TSPC_Serv_BS34	BOOLEAN	PICS Table A.4 Item 10	data circuit duplex sync 9600 bit/s supported
TSPC_Serv_BS41	BOOLEAN	PICS Table A.4 Item 11	PAD access 300 bit/s supported
TSPC_Serv_BS42	BOOLEAN	PICS Table A.4 Item 12	PAD access 1200 bit/s supported
TSPC_Serv_BS43	BOOLEAN	PICS Table A.4 Item 13	PAD access 1200/75 bit/s supported
TSPC_Serv_BS44	BOOLEAN	PICS Table A.4 Item 14	PAD access 2400 bit/s supported
TSPC_Serv_BS45	BOOLEAN	PICS Table A.4 Item 15	PAD access 4800 bit/s supported
TSPC_Serv_BS46	BOOLEAN	PICS Table A.4 Item 16	PAD access 9600 bit/s supported
TSPC_Serv_BS51	BOOLEAN	PICS Table A.4 Item 17	packet access 2400 bit/s supported
TSPC_Serv_BS52	BOOLEAN	PICS Table A.4 Item 18	packet access 4800 bit/s supported
TSPC_Serv_BS53	BOOLEAN	PICS Table A.4 Item 19	packet access 9600 bit/s supported
TSPC_Serv_BS61	BOOLEAN	PICS	alternate speech/data (BS61) supported
TSPC_Serv_BS81	BOOLEAN	PICS	speech followed data (BS81) supported

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPC_SMSStatusRepCap	BOOLEAN	PICS Table A.25 Item 35	SMS status report capabilities supported
TSPC_StoreRcvSMSME	BOOLEAN	PICS Table A.25 Item 37	Storage of received SMS in ME supported
TSPC_StoreRcvSMSSIM	BOOLEAN	PICS Table A.25 Item 36	Storage of received SMS in SIM supported
TSPC_SIMRmv	BOOLEAN	PICS Table A.25 Item 40	SIM removable without power down supported
TSPC_SwitchOnOff	BOOLEAN	PICS Table A.2 Item 15	switch on/off supported
TSPC_TranspDataOnly	BOOLEAN	PICS Table A.25 Item 9	only transparent data service supported
TSPC_CC	BOOLEAN	PICS Table A.25 Item 26	CC protocol for at least one BC supported
TSPC_TeleSvc	BOOLEAN	PICS Table A.25 Item 25	at least one teleservice supported
TSPC_EFR	BOOLEAN	PICS	Set to TRUE for EFR MS which supports any EFR features, and FALSE otherwise.
TSPC_EFR_Speech_v2	BOOLEAN	PICS	Set to TRUE for EFR MS which supports Speech Version 2 and FALSE otherwise.
TSPC_EFR_Speech_v3	BOOLEAN	PICS	Set to TRUE for EFR MS which supports Speech Version 3 and FALSE otherwise.
TSPC_EFR_EmgCallBcap	BOOLEAN	PICS	Set to TRUE if received ESETUP msg contains bearer capability IE, otherwise FALSE.
TSPC_FullRateSpeech	BOOLEAN	PICS Table A.25 Item 2	full rate speech mode supported − must be TRUE if TSPC_HalfRateSpeech = TRUE
TSPC_FullRateOnly	BOOLEAN	PICS Table A.25 Item 24	only full rate channel type supported
TSPX_AltNb	BOOLEAN	PIXIT TC	use alternative neighbour cells description. default : FALSE
TSPX_TE_stopbit	B_1	PIXIT MS	Terminal Equipment configuration number stop bits. ’0’, 1 bit; ’1’, 2 bits. default value : ’0’B, 1 bit
TSPX_TE_databit	B_1	PIXIT MS	Terminal Equipment configuration number data bits. ’0’, 7 bits; ’1’, 8 bits. default value : ’1’B, 8 bits
TSPX_TE_FLCT	FLWCNTL	PIXIT MS	Terminal Equipment flow control. 0−outband, 1−inband, 2−no flow control. default : 0, outband flow control

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_TE_parity	B_3	PIXIT MS	Terminal Equipment configuration parity. 000=odd, 010=even, 011=none, 100=forced to 0, 101=forced to1. default : ’001’B, no parity
TSPX_BS_21_itc1	B_3	PIXIT MS	Information Transfer Capability value supported for BS21 (async data 300bits/s). default value : ’001’B, Unrestricted Digital Information
TSPX_BS_21_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS21 (async data 300bits/s). default value : FALSE, only one itc
TSPX_BS_21_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported by BS21 (async data 300bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_21_ce	B_2	PIXIT MS	BS21 (async data 300bits/s) connection element value used in MO call and if the answer to TSPX_BS_21_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’00’B, transparent mode
TSPX_BS_21_sacp	B_3	PIXIT MS	BS21 (async data 300bits/s)Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450
TSPX_BS_21_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS21 (async data 300bits/s), it shall be different from the previous one if the answer to TSPX_BS_21_more_itc is TRUE. default value :’001’B, Unrestricted Digital Information
TSPX_BS_22_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS22 (async data 1200bits/s). default value : ’010’B, 3.1kHz audio, exPLMN

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_22_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS22 (async data 1200bits/s). default value : FALSE, only one itc
TSPX_BS_22_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported by BS22 (async data 1200bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_22_ce	B_2	PIXIT MS	BS22 (async data 1200bits/s). Connection element value used in MO call and if the answer to TSPX_BS_22_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’01’B, non transparent
TSPX_BS_22_sacp	B_3	PIXIT MS	BS22 (async data 1200bits/s). Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450
TSPX_BS_22_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS22 (async data 1200bits/s), it shall be different from the previous one if the answer to TSPX_BS_22_more_itc is TRUE. default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_23_itc	B_3	PIXIT MS	Information Transfer Capability value supported by BS23 (async data 1200/75bits/s). default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_23_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for BS23 (async data 1200/75bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_23_ce	B_2	PIXIT MS	BS23 (async data 1200/75bits/s) Connection element value used in MO call. default value : ’00’B, transparent
TSPX_BS_23_sacp	B_3	PIXIT MS	BS23 (async data 1200/75bits/s) Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_24_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS24 (async data 2400bits/s). default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_24_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS24 (async data 2400bits/s). default value : FALSE, only one itc
TSPX_BS_24_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported by BS24 (async data 2400bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_24_ce	B_2	PIXIT MS	BS24 (async data 2400bits/s). Connection element value used in MO call and if the answer to TSPX_BS_24_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’00’B, transparent
TSPX_BS_24_sacp	B_3	PIXIT MS	BS24 (async data 2400bits/s) Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450
TSPX_BS_24_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS24 (async data 2400bits/s), it shall be different from the previous one if the answer to TSPX_BS_24_more_itc is TRUE. default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_25_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS25 (async data 4800bits/s). default value : ’001’B, Unrestricted Digital Information
TSPX_BS_25_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS25 (async data 4800bits/s). default value : FALSE, only one itc

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_25_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported by BS25 (async data 4800bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_25_ce	B_2	PIXIT MS	BS25 (async data 4800bits/s). Connection element value used in MO call and if the answer to TSPX_BS_25_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’00’B, transparent
TSPX_BS_25_sacp	B_3	PIXIT MS	BS25 (async data 4800bits/s) Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450
TSPX_BS_25_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS25 (async data 4800bits/s), it shall be different from the previous one if the answer to TSPX_BS_25_more_itc is TRUE. default value : ’001’B, Unrestricted Digital Information
TSPX_BS_26_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS26 (async data 9600bits/s). default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_26_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS26 (async data 9600bits/s). default value : FALSE, only one itc
TSPX_BS_26_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported by BS26 (async data 9600bits/s). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_26_ce	B_2	PIXIT MS	BS26 (async data 9600bits/s). Connection element value used in MO call and if the answer to TSPX_BS_26_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’00’B, transparent

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_26_sacp	B_3	PIXIT MS	BS26 (async data 9600bits/s) Signalling Access Protocol value used in MO call. default value : ’001’B, I440/450
TSPX_BS_26_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS26 (async data 9600bits/s), it shall be different from the previous one if the answer to TSPX_BS_26_more_itc is TRUE. default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_31_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS31 (sync data 1200bits/s). default value : FALSE, only one itc
TSPX_BS_31_more_sacp	BOOLEAN	PIXIT MS	more than one Signalling Access Protocol value supported by BS31(sync data 1200bits/s). default value : FALSE, only one sacp
TSPX_BS_31_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS31(sync data 1200bits/s). default value : ’001’B, Unrestricted Digital Information
TSPX_BS_31_sacp1	B_3	PIXIT MS	Signalling Access Protocol value supported by BS31(sync data 1200bits/s). default value : ’001’B, I440/450
TSPX_BS_31_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS31(sync data 1200bits/s), it shall be different from the previous one if the answer to TSPX_BS_31_more_itc is TRUE. default value : ’001’B, Unrestricted Digital Information
TSPX_BS_31_sacp2	B_3	PIXIT MS	other Signalling Access Protocol value supported by BS31(sync data 1200bits/s), it shall be different from the previous one if the answer to TSPX_BS_31_more_sacp is TRUE. default value : ’001’B, I440/450

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_32_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS32 (sync data 2400bits/s). default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_32_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS32 (sync data 2400bits/s). default value : FALSE, only one itc
TSPX_BS_32_more_sacp	BOOLEAN	PIXIT MS	more than one Signalling Access Protocol value supported by BS32 (sync data 2400bits/s). default value : FALSE, only one sacp
TSPX_BS_32_sacp1	B_3	PIXIT MS	Signalling Access Protocol value supported by BS32 (sync data 2400bits/s). default value : ’110’B, X.32
TSPX_BS_32_X32_T_NT	BOOLEAN	PIXIT MS	BS 32 (sync data 2400bits/s) both Transparent and Non−Transparent supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_32_X32_ce	B_2	PIXIT MS	BS32 (sync data 2400bits/s). If the answer to TSPX_BS_32_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. Connection Element default value : ’01’B, non transparent
TSPX_BS_32_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS32 (sync data 2400bits/s), it shall be different from the previous one if the answer to TSPX_BS_32_more_itc is TRUE. default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_32_sacp2	B_3	PIXIT MS	other Signalling Access Protocol value supported by BS32 (sync data 2400bits/s), it shall be different from the previous one if the answer to TSPX_BS_32_more_sacp is TRUE. default value : ’110’B, X.32

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_33_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS33 (sync data 4800bits/s). default value : ’001’B, Unrestricted Digital Information
TSPX_BS_33_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS33 (sync data 4800bits/s). default value : FALSE, only one itc
TSPX_BS_33_more_sacp	BOOLEAN	PIXIT MS	more than one Signalling Access Protocol value supported by BS33 (sync data 4800bits/s). default value : FALSE, only one sacp
TSPX_BS_33_sacp1	B_3	PIXIT MS	Signalling Access Protocol value supported by BS33 (sync data 4800bits/s). default value : ’010’B, X.21
TSPX_BS_33_X32_T_NT	BOOLEAN	PIXIT MS	BS 33 (sync data 4800bits/s) both Transparent and Non−Transparent supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_33_X32_ce	B_2	PIXIT MS	BS33 (sync data 4800bits/s). If the answer to TSPX_BS_33_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. Connection element default value : ’00’B, transparent
TSPX_BS_33_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS33 (sync data 4800bits/s), it shall be different from the previous one if the answer to TSPX_BS_33_more_itc is TRUE. default value : ’001’B, Unrestricted Digital Information
TSPX_BS_33_sacp2	B_3	PIXIT MS	other Signalling Access Protocol value supported by BS33 (sync data 4800bits/s), it shall be different from the previous one if the answer to TSPX_BS_33_more_sacp is TRUE. default value : ’010’B, X.21

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_34_itc1	B_3	PIXIT MS	Information Transfer Capability value supported by BS34 (sync data 9600bits/s). default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_34_more_itc	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS34 (sync data 9600bits/s). default value : FALSE, only one itc
TSPX_BS_34_more_sacp	BOOLEAN	PIXIT MS	more than one Signalling Access Protocol value supported by BS34 (sync data 9600bits/s). default value : FALSE, only one sacp
TSPX_BS_34_sacp1	B_3	PIXIT MS	Signalling Access Protocol value supported by BS34 (sync data 9600bits/s). default value : ’001’B, I440/450
TSPX_BS_34_X32_T_NT	BOOLEAN	PIXIT MS	BS 34 (sync data 9600bits/s) both Transparent and Non−Transparent supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_34_X32_ce	B_2	PIXIT MS	BS34 (sync data 9600bits/s). If the answer to TSPX_BS_34_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : ’00’B, transparent
TSPX_BS_34_itc2	B_3	PIXIT MS	other Information Transfer Capability value supported by BS34 (sync data 9600bits/s), it shall be different from the previous one if the answer to TSPX_BS_34_more_itc is TRUE. default value : ’010’B, 3.1kHz audio, exPLMN
TSPX_BS_34_sacp2	B_3	PIXIT MS	other Signalling Access Protocol value supported by BS34 (sync data 9600bits/s), it shall be different from the previous one if the answer to TSPX_BS_34_more_sacp is TRUE. default value : ’001’B, I440/450

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_41_T_NT	BOOLEAN	PIXIT MS	BS41 (PAD access 300bit/s) both Transparent and Non−Tranparent supported . default value : FALSE, not support both
TSPX_BS_41_ce	B_2	PIXIT MS	Connection element value used in BS41 (PAD access 300bit/s) MO call. default value : ’00’B, transparent
TSPX_BS_42_T_NT	BOOLEAN	PIXIT MS	BS42 (PAD access 1200bit/s) both Transparent and Non−Transparent supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_42_ce	B_2	PIXIT MS	Connection element value used in BS42 (PAD access 1200bit/s) MO call. default value : ’010’B, non transparent
TSPX_BS_43_T_NT	BOOLEAN	PIXIT MS	BS43 (PAD access 1200/75bit/s) both Transparent and Non−Transparent supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_43_ce	B_2	PIXIT MS	Connection element value used in BS43 (PAD access 1200/75bit/s) MO call. default value : ’00’B, transparent
TSPX_BS_44_T_NT	BOOLEAN	PIXIT MS	BS44 (PAD access 2400bit/s) both Transparent and Non−Transparent supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_44_ce	B_2	PIXIT MS	Connection element value used in BS44 (PAD access 2400bit/s) MO call. default value : ’00’B, transparent
TSPX_BS_45_T_NT	BOOLEAN	PIXIT MS	BS45 (PAD access 4800bit/s) both Transparent and Non−Transparent supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_45_ce	B_2	PIXIT MS	Connection element value used in BS45 (PAD access 4800bit/s) MO call. default value : ’01’B, non transparent

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_46_T_NT	BOOLEAN	PIXIT MS	BS46 (PAD access 9600bit/s) both Transparent and Non−Transparent supported . default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_46_ce	B_2	PIXIT MS	Connection element value used in BS46 (PAD access 300bit/s) MO call. default value : ’00’B, transparent
TSPX_BS_61_S	BOOLEAN	PIXIT MS	synchronous data supported by BS 61 (alternate speech/data). default value : TRUE, synchronous mode
TSPX_BS_61_S_more_ur	BOOLEAN	PIXIT MS	more than one user rate for synchronous data service supported by BS61 (alternate speech/data). default value : FALSE, only ine user rate
TSPX_BS_61_S_ur1	B_4	PIXIT MS	usrer rate value supported for synchronous data service of BS61 (alternate speech/data). default value : ’0100’B, 4.8 kbit/s
TSPX_BS_61_S_ur2	B_4	PIXIT MS	another usrer rate value supported for synchronous data service of BS61 (alternate speech/data). it shall be different from the previous one if the answer to TSPX_BS_61_S_more_ur is TRUE. default value : ’0100’B, 4.8 kbit/s
TSPX_BS_61_A	BOOLEAN	PIXIT MS	asynchronous data service supported by BS61 (alternate speech/data) . default value : TRUE, asynchronous
TSPX_BS_61_A_ur1	B_4	PIXIT MS	usrer rate value supported for asynchronous data service of BS61 (alternate speech/data). default value : ’0101’B, 9.6 kbit/s
TSPX_BS_61_A_ur1_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for the rate TSPX_BS_61_A_ur1 of BS61 (alternate speech/data). default value : FALSE, not support both transparent and non transparent modes

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_61_A_ur1_ce	B_2	PIXIT MS	BS61 (alternate speech/data). If the answer to TSPX_BS_61_A_ur1_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. Connection element default value : ’00’B, transparent
TSPX_BS_61_A_more_ur	BOOLEAN	PIXIT MS	more than one user rate for asynchronous data service supported by BS61 (alternate speech/data). default value : FALSE, only one user rate
TSPX_BS_61_A_ur2	B_4	PIXIT MS	another user rate value supported for asynchronous data service of BS61 (alternate speech/data). it shall be different from the previous one if the answer to TSPX_BS_61_A_more_ur is TRUE. default value : ’0101’B, 9.6 kbit/s
TSPX_BS_61_A_ur2_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for the rate TSPX_BS_61_A_ur2 of BS61 (alternate speech/data). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_81_S	BOOLEAN	PIXIT MS	synchronous data supported by BS 81 (speech followed by data). default value : TRUE, synchronous mode
TSPX_BS_81_S_more_ur	BOOLEAN	PIXIT MS	more than one user rate for synchronous data service supported by BS81 (speech followed by data). default value : FALSE, only one user rate
TSPX_BS_81_S_ur1	B_4	PIXIT MS	user rate value supported for synchronous data service of BS81 (speech followed by data). default value : ’0101’B, 9.6 kbit/s
TSPX_BS_81_S_ur2	B_4	PIXIT MS	another user rate value supported for synchronous data service of BS81 (speech followed by data). it shall be different from the previous one if the answer to TSPX_BS_81_S_more_ur is TRUE. default value : ’0101’B, 9.6 kbit/s

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_BS_81_A	BOOLEAN	PIXIT MS	asynchronous data service supported by BS81 (speech followed by data). default value : TRUE, asynchronous mode
TSPX_BS_81_A_ur1	B_4	PIXIT MS	user rate value supported for asynchronous data service of BS81 (speech followed by data). default value : ’0100’B, 4.8 kbit/s
TSPX_BS_81_A_ur1_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for the rate TSPX_BS_81_A_ur1 of BS81 (speech followed by data). default value : FALSE, not support both transparent and non transparent modes
TSPX_BS_81_A_ur1_ce	B_2	PIXIT MS	BS81 (speech followed by data) If the answer to TSPX_BS_81_A_ur1_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : Connection element ’01’B, non transparent
TSPX_BS_81_A_more_ur	BOOLEAN	PIXIT MS	more than one user rate for asynchronous data service supported by BS81 (speech followed by data). default value : FALSE, only one user rate
TSPX_BS_81_A_ur2	B_4	PIXIT MS	another user rate value supported for asynchronous data service of BS81 (speech followed by data). it shall be different from the previous one if the answer to TSPX_BS_81_A_more_ur is TRUE. default value : ’0100’B, 4.8 kbit/s
TSPX_BS_81_A_ur2_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for the rate TSPX_BS_81_A_ur2 of BS81 (speech followed by data). default value : FALSE, not support both transparent and non transparent modes

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_TS_61_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for TS61(alternate speech and G3 fax). default value : FALSE, not support both transparent and non transparent modes
TSPX_TS_61_ce	B_2	PIXIT MS	TS61(alternate speech and G3 fax) if the answer to TSPX_TS_61_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. Connection element default value : ’01’B, non transparent
TSPX_TS_61_ur1	B_4	PIXIT MS	user rate for TS61(alternate speech and G3 fax). default value : ’0101’B, 9.6 kbit/s
TSPX_TS_61_more_ur	BOOLEAN	PIXIT MS	more than one user rate supported for TS61(alternate speech and G3 fax). default value : FALSE, only one user rate
TSPX_TS_61_ur2	B_4	PIXIT MS	another user rate for TS61 (alternate speech and G3 fax), it shall be different from the previous one if the answer to TSPX_TS_61_more_ur is TRUE. default value : ’0101’B, 9.6 kbit/s
TSPX_TS_62_T_NT	BOOLEAN	PIXIT MS	both Transparent and Non−Transparent supported for TS62 (automatic G3 fax). default value : FALSE, not support both transparent and non transparent modes
TSPX_TS_62_ce	B_2	PIXIT MS	TS62 (automatic G3 fax). If the answer to TSPX_TS_62_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. Connection element default value : ’00’B, transparent
TSPX_TS_62_ur1	B_4	PIXIT MS	user rate for TS62 (automatic G3 fax). default value : ’0100’B, 4.8 kbit/s
TSPX_TS_62_more_ur	BOOLEAN	PIXIT MS	more than one user rate supported by TS62 (automatic G3 fax). default value : FALSE, only one user rate

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_TS_62_ur2	B_4	PIXIT MS	another user rate for TS62 (automatic G3 fax), it shall be different from the previous one if the answer to TSPX_TS_62_more_ur is TRUE. default value : ’0100’B, 4.8 kbit/s
TSPX_DTMF	B_1	PIXIT MS	call control capabilities: value ’1’B means MS supports DTMF
TSPX_modF	CHMOD_VAL	PIXIT TC	any non signalling full rate channel mode for TC_26_6_4_1
TSPX_modH	CHMOD_VAL	PIXIT TC	any non signalling half channel mode for TC_26_6_4_1
TSPX_anymod	CHMOD_VAL	PIXIT TC	Any supported channel mode value except signalling and Full rate speech. possible values are ’00000011’B’ 12k data, ’00001011’B 6k data, ’0010011’B 3.6k data
TSPX_CKSNA	CKSN	PIXIT TC	cipher key sequence number, GSM 04.08, 10.5.1.2
TSPX_CKSNB	CKSN	PIXIT TC	cipher key sequence number, GSM 04.08, 10.5.1.2
TSPX_CKSNC	CKSN	PIXIT TC	cipher key sequence number, GSM 04.08, 10.5.1.2
TSPX_CKSNDef	CKSN	PIXIT TC	default cipher key sequence number, GSM 04.08, 10.5.1.2
TSPX_RfPwrCap	B_3	PIXIT MS	RF power capability − GSM ’000’B Class 1 to ’100’B Class 5 DCS ’000’B Class 1 to ’010’B Class 3
TSPX_RevLevel	B_2	PIXIT MS	Revision level of classmark 1 − ’00’B Phase 1, ’01’B Phase 2
TSPX_CiphAlgA5_1	B_1	PIXIT MS	A5/1 algorithm: ’0’B : available, ’1’B: not available
TSPX_CiphAlgA5_2	B_1	PIXIT MS	A5/2 algorithm: ’1’B : available, ’0’B: not available
TSPX_CiphAlgA5_3	B_1	PIXIT MS	A5/3 algorithm: ’1’B : available, ’0’B: not available
TSPX_CiphAlgA5_4	B_1	PIXIT MS	A5/4 algorithm: ’1’B : available, ’0’B: not available
TSPX_CiphAlgA5_5	B_1	PIXIT MS	A5/5 algorithm: ’1’B : available, ’0’B: not available
TSPX_CiphAlgA5_6	B_1	PIXIT MS	A5/6 algorithm: ’1’B : available, ’0’B: not available
TSPX_CiphAlgA5_7	B_1	PIXIT MS	A5/7 algorithm: ’1’B : available, ’0’B: not available
TSPX_pSyncCap	B_1	PIXIT MS	pseudo synchronisation capability, ’0’B: not present ’1’B: present

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_SSscrnInd	B_2	PIXIT MS	SS screen indicator −GSM 04.80
TSPX_SMCap	B_1	PXIIT MS	Support of mobile terminated point to point short messages, ’0’B: not present ’1’B: present
TSPX_frqCap	B_1	PIXIT MS	EGSM frequency capability. DCS: reserved, GSM: ’0’B not support extension band, ’1’B support extension band
TSPX_ClsMk3	B_1	PIXIT MS	classmark 3 indicator, ’0’B no addition capability info, ’1’B additional capability info in class mark 3
TSPX_RfPwrCapAmp	B_3	PIXIT MS	RF power capability with external RF amplifier − GSM ’000’B Class 1 to ’100’B Class 5 DCS ’000’B Class 1 to ’010’B Class 3
TSPX_CphAlgA	CPHALG	PIXIT TC	ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_CphAlgB	CPHALG	PIXIT TC	ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_CphAlgC	CPHALG	PIXIT TC	ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_CphAlgD	CPHALG	PIXIT TC	ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_CphAlgE	CPHALG	PIXIT TC	ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_CphAlgDef	CPHALG	PIXIT TC	default ciphering algorithm identifier − ’000’B A5/1 to ’110’ A5/7
TSPX_DTMFInd	BOOLEAN	PIXIT MS	DTMF indication to user supported
TSPX_NoOfHoAccA	INTEGER	PIXIT TC	number of handover access bursts, value range 10 − 20 TC_26_6_5_1(M=1,M=8) TC_26_6_5_2_1 26_6_5_2_8 TC_26_6_5_4_1 TC_26_10_2_4_1 TC_26_10_2_4_2 TC_26_12_2_1_1 TC_26_12_2_1_4 TC_26_12_2_1_7 TC_26_12_2_1_11 TC_26_12_2_2_1 TC_26_12_2_2_4 TC_26_12_2_2_7 TC_26_12_2_2_8 TC_26_12_2_2_11 TC_26_11_2_2_1 TC_26_11_5_1 TC_26_11_5_2

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_NoOfHoAccB	INTEGER	PIXIT TC	number of handover access bursts, value range 10 − 20 TC_26_6_5_1(M=2) TC_26_6_5_2_6 TC_26_6_5_2_9 TC_26_12_2_1_2 TC_26_12_2_1_5 TC_26_12_2_1_8 TC_26_12_2_1_13 TC_26_12_2_2_2 TC_26_12_2_2_5 TC_26_12_2_2_9 TC_26_11_2_2_1
TSPX_NoOfHoAccC	INTEGER	PIXIT TC	number of handover access bursts, value range 10 − 20 TC_26_6_5_1(M=3) TC_26_6_5_2_7 TC_26_12_2_1_3 TC_26_12_2_1_6 TC_26_12_2_1_9 TC_26_12_2_1_15 TC_26_12_2_2_3 TC_26_12_2_2_6 TC_26_12_2_2_10 TC_26_11_2_2_1
TSPX_NoOfHoAccD	INTEGER	PIXIT TC	number of handover access bursts, value range 5 − 10 TC_26_6_5_1(M=4,M=7) TC_26_6_5_2_2 TC_26_12_2_1_10
TSPX_NoOfHoAccE	INTEGER	PIXIT TC	number of handover access bursts, value range 5 − 10 TC_26_6_5_1(M=5) TC_26_6_5_2_5 TC_26_12_2_1_12
TSPX_NoOfHoAccF	INTEGER	PIXIT TC	number of handover access bursts, value range 5 − 10 TC_26_6_5_1(M=6) TC_26_6_5_2_10 TC_26_12_2_1_14
TSPX_NoOfHoAccG	INTEGER	PIXIT TC	number of handover access bursts, value range 2 − 5 TC_26_6_5_2_3
TSPX_NoOfHoAccH	INTEGER	PIXIT TC	number of handover access bursts, value range 2 − 5 TC_26_6_5_2_4
TSPX_NoOfHoAccI	INTEGER	PIXIT TC	number of handover access bursts, value range 2 − 5 TC_26_10_2_4_1

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_HoRefA	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=1) TC_26_6_5_2_1 TC_26_6_5_4_1 TC_26 10_2_4_2 TC_26_12_2_1_1 TC_26_12_2_1_11 TC_26_11_2_2_1 TC_26_11_5_1 TC_26_11_5_2
TSPX_HoRefB	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=2,M=8) TC_26_6_5_2_2 TC_26_12_2_1_2 TC_26_12_2_1_12 TC_26_11_2_2_1
TSPX_HoRefC	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=3) TC_26_6_5_2_3 TC_26_12_2_1_3 TC_26_12_2_1_13 TC_26_12_2_2_3 TC_26_12_2_2_6 TC_26_12_2_2_10 TC_26_11_2_2_1
TSPX_HoRefD	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=4) TC_26_6_5_2_4 TC_26_12_2_1_4 TC_26_12_2_1_14
TSPX_HoRefE	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=5) TC_26_6_5_2_5 TC_26_12_2_1_5 TC_26_12_2_1_15
TSPX_HoRefF	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=6) TC_26_6_5_2_6 TC_26_12_2_1_6
TSPX_HoRefG	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_1(M=7) TC_26_6_5_2_7 TC_26_12_2_1_7
TSPX_HoRefH	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_2_8 TC_26_12_2_1_8
TSPX_HoRefI	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_2_9 TC_26_12_2_1_9

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_HoRefJ	HORF	PIXIT TC	Hand over reference, GSM 04.08, 10.5.2.15 TC_26_6_5_2_10 TC_26_12_2_1_10
TSPX_HSN	INTEGER	PIXIT TC	Hopping sequence number value range: 0 − 63. 0=cyclic hopping. Refer to GSM 11.10 for the value to be used in a particular test case
TSPX_IMSI	HEXSTRING	PIXIT MS	IMSI of the MS − Phase 2 Test SIM value: 001010123456063
TSPX_IMEI	HEXSTRING	PIXIT MS	IMEI of the MS.
TSPX_IMEISV	HEXSTRING	PIXIT MS	IMEISV of the MS. Used in: TC_26_6_8_5, TC_26_7_3_1
TSPX_Ki	BITSTRING	PIXIT MS	default authentication key used in testing − Phase 2 test SIM value: 0101111001001010101100 1101011000100100010011 0111010111010010101011 1011101000000100101110 0110011111000011000010 011010011000101001
TSPX_MAIO	INTEGER	PIXIT TC	mobile allocation index offset, value range: 0 − 63
TSPX_MaxRetrans	INTEGER	PIXIT TC	Max−Retrans − Maximum number of re−transmissions of Channel Requests as defined in System Information (values 1, 2, 4 or 7 retransmissions)
TSPX_MSTxpwrMax	MAXTXPOW	PIXIT TC	maximum output power from MS GSM 05.05, 4.11
TSPX_PwrlvlA	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvlB	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvlC	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvlD	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_RANDA	RAND	PIXIT TC	challenge RAND
TSPX_RANDB	RAND	PIXIT TC	challenge RAND
TSPX_RANDC	RAND	PIXIT TC	challenge RAND
TSPX_RANDDef	RAND	PIXIT TC	default challenge RAND
TSPX_SDCCH4SubA	B_2	PIXIT TC	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubB	B_2	PIXIT TC	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubC	B_2	PIXIT TC	TDMA offset of SDCCH/4 subchannel
TSPX_SDCCH4SubDef	B_2	PIXIT TC	TDMA offset of default SDCCH/4 subchannel

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_SDCCH8SubA	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubB	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubC	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubD	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubE	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubF	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubG	B_3	PIXIT TC	TDMA offset of SDCCH/8 subchannel
TSPX_SDCCH8SubDef	B_3	PIXIT TC	TDMA offset of default SDCCH/8 subchannel
TSPX_TC1M	INTEGER	PIXIT MS	timer value for GSM timer TC1M (for SMS)
TSPX_MaxCPDataRetx	INTEGER	PIXIT MS	max. number of CP data retransmissions for SMS
TSPX_Immconn	BOOLEAN	PIXIT MS	Immediate connect supported
TSPX_TimadvA	INTEGER	PIXIT TC	timing advance in bit periods
TSPX_TimadvB	INTEGER	PIXIT TC	timing advance in bit periods
TSPX_TimadvC	INTEGER	PIXIT TC	timing advance in bit periods
TSPX_TmSltA	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltB	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltC	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltD	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltE	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltF	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltG	SN	PIXIT TC	time slot GSM 04.08, 10.5.2.5
TSPX_TmSltDef	SN	PIXIT TC	default time slot GSM 04.08, 10.5.2.5
TSPX_TmSltNotZero	SN	PIXIT TC	time slot, arbitrarily value, but not zero.
TSPX_TmSltNotZero1	SN	PIXIT TC	time slot, arbitrarily value, but not zero and not TSPX_TmSltNotZero
TSPX_Txint	INTEGER	PIXIT TC	Tx−Integer, no. of slots to spread transmission (values 3,..,12,14,16,20,25,32 or 50)
TSPX_TscA	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_TscB	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscC	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscD	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscE	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscF	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscG	TSC	PIXIT TC	training sequence code GSM 04.08, 10.5.2.5
TSPX_TscDef	TSC	PIXIT TC	default training sequence code GSM 04.08, 10.5.2.5
TSPX_T3122	WI	PIXIT TC	value of wait indication (before mobile may attempt another Channel Request) timer T3122, hexstring representation of value in seconds
TSPX_SDCCHcarrierA_ho	INTEGER	PIXIT TC	TC_26_10_2_4_1. The value can be choosen arbitrarily from cell allocation of cell A (GSM), but not BCCH carrier. Possible values are : 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114.
TSPX_TCHcarrierA_ho	INTEGER	PIXIT TC	the value can be choosen arbitrarily from cell allocation of cell A (GSM), but not BCCH carrier .possible values are : 10, 17, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114
TSPX_TCHcarrierA_hod	INTEGER	PIXIT TC	the value can be choosen arbitrarily from cell allocation of cell A (DCS), but not BCCH carrier . possible values are : 734,741,754,759,762,766,767,773,775,779,782,791,798,829,832,844
TSPX_TCHcarrierB	INTEGER	PIXIT TC	TCH and SDCCH channel frequency number of cell B (GSM)
TSPX_TCHcarrierBd	INTEGER	PIXIT TC	TCH and SDCCH channel frequency number of cell B (DCS)
TSPX_TCHcarrierB_ho	INTEGER	PIXIT TC	the value can be choosen arbitrarily from cell allocation of cell B (GSM), but not BCCH carrier . possible values are : 14,18,22,24,30,31,38,60,66,73,74,75,76,108,114

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_TCHcarrierB_hod	INTEGER	PIXIT TC	not BCCH carrier of cell B. the value can be choosen arbitrarily from cell allocation of cell B (DCS), which is (739,743,746,749,756,758, 761,771,779,782,791,798,829,832,844)
TSPX_TCHcarrierB2_ho	INTEGER	PIXIT TC	Choosen arbitrarly from cell allocation B for GSM HO cases, but not BCCH carrier!
TSPX_TCHcarrierB2_hod	INTEGER	PIXIT TC	Choosen arbitrarly from cell allocation B for DCS HO cases, but not BCCH carrier!
TSPX_TCHHSubA	B_1	PIXIT TC	TDMA offset of half rate subchannel
TSPX_TCHHSubDef	B_1	PIXIT TC	TDMA offset of default half rate subchannel
TSPX_TMSI	TMSI_V	PIXIT TC	TMSI of the MS used in test − standard value is 12345678
TSPX_TMSI1	TMSI_V	PIXIT TC	another TMSI used in test which shall differ from TSPX_TMSI, TSPX_TMSI + ’01’O TSPX_TMSI + ’02’O TSPX_TMSI + ’03’O
TSPX_Uupd	B_8	PIXIT TC	user−user protocol discriminator for TC 26_8_3
TSPX_UuInfo	OCTETSTRING	PIXIT TC	user−user information for TC 26_8_3
TSPX_k	INTEGER	PIXIT TC	timing of cell A before cell B k bit periods for TC_26_6_5_1, TC_26_6_5_2_? TC_26_6_5_3_?, TC_26_6_5_4_?.
TSPX_y	INTEGER	PIXIT TC	timing advance for TC_26_6_5_3_?, TC_26_6_5_4_?, TC_26_6_5_5_? . The values of TSPX_k (or TSPX_k1) and TSPX_y: 0 < (2*TSPX_k + TSPX_y) MOD 256 < 60.
TSPX_k1	INTEGER	PIXIT TC	timing of cell A before cell B k bit periods for TC_26_6_5_5_?
TSPX_k2	INTEGER	PIXIT TC	timing of cell A before cell B k bit periods for TC_26_6_5_6
TSPX_y2	INTEGER	PIXIT TC	timing advance for TC_26_6_5_6, value range : 11 − 62.

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_k3	INTEGER	PIXIT TC	timing of cell A before cell B k bit periods for TC_26_6_5_7
TSPX_y3	INTEGER	PIXIT TC	timing advance for TC_26_6_5_7
TSPX_nPara	INTEGER	PIXIT TC	the n'th ChReq for TC_26_6_1_2, shall be [1..8], MAXRETRANS for TC_26_6_1_2 is 7 (See 11.10 for more explaination).
TSPX_kPara	INTEGER	PIXIT TC	the k'th ChReq for TC_26_6_1_2 (range 4..8)
TSPX_rPara	INTEGER	PIXIT TC	the r'th ChReq for TC_26_6_1_2 (range 4..8)
TSPX_i1Para	INTEGER	PIXIT TC	for TC_26_6_1_2 (TSPX_nPara−3)<TSPX_i1Para<=TSPX_nPara
TSPX_i2Para	INTEGER	PIXIT TC	for TC_26_6_1_2 0<TSPX_i2Para<=(TSPX_kPara − 3)
TSPX_i3Para	INTEGER	PIXIT TC	for TC_26_6_1_2 (TSPX_rPara − 3)< TSPX_i3Para <= TSPX_rPara
TSPX_n1Para	INTEGER	PIXIT TC	the n'th ChReq for TC_26_6_1_3 (range 1...8)
TSPX_i4Para	INTEGER	PIXIT TC	for TC_26_6_1_3 (TSPX_n1Para−3)<TSPX_i4Para<=TSPX_n1Para
TSPX_xPara	INTEGER	PIXIT TC	t3122 for TC_26_6_1_3 (range 5...255)
TSPX_AGBLKS1	INTEGER	PIXIT TC	BS−AG−BLKS−RES for TC_26_6_2_3_1, TC_26_6_2_1_1
TSPX_PAMFRMS1	INTEGER	PIXIT TC	BS−PA−MFRMS for TC_26_6_2_3_1 (range 2..8), TC_26_6_2_1_1
TSPX_CcchConf1	CCCH_CON	PIXIT TC	CCCH Configuration for TC_26_6_2_3_1, TC_26_6_2_1_1
TSPX_PgSubch	INTEGER	PIXIT TC	paging subchannel for TC_26_6_2_3_1
TSPX_AGBLKS2	INTEGER	PIXIT TC	BS−AG−BLKS−RES for TC_26_6_2_3_2 (range 0..2), TC_26_6_2_1_2
TSPX_PAMFRMS2	INTEGER	PIXIT TC	BS−PA−MFRMS for TC_26_6_2_3_2, TC_26_6_2_1_2
TSPX_CcchConf2	CCCH_CON	PIXIT TC	CCCH Configuration for TC_26_6_2_3_2, TC_26_6_2_1_2
TSPX_AGBLKS3	INTEGER	PIXIT TC	BS−AG−BLKS−RES for TC_26_6_2_4, TC_26_6_2_2, TC_26_6_2_1_3

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_PAMFRMS3	INTEGER	PIXIT TC	BS−PA−MFRMS for TC_26_6_2_4, TC_26_6_2_2, TC_26_6_2_1_3
TSPX_CcchConf3	CCCH_CON	PIXIT TC	CCCH Configuration for TC_26_6_2_4, TC_26_6_2_2, TC_26_6_2_1_3
TSPX_AGBLKS4	INTEGER	PIXIT TC	BS−AG−BLKS−RES for TC_26_6_2_5
TSPX_PAMFRMS4	INTEGER	PIXIT TC	BS−PA−MFRMS for TC_26_6_2_5
TSPX_CcchConf4	CCCH_CON	PIXIT TC	CCCH Configuration for TC_26_6_2_5 (shall be in the set ('010', '100', '110'))
TSPX_Chtp1	CH_TDMA	PIXIT TC	channel type and TDMA offset for TC_26_6_13_1, any value supported by the MS
TSPX_ChMod1	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_1, any value for the channel type of TSPX_Chtp1
TSPX_Maio1	INTEGER	PIXIT TC	Mobile allocation index offset hopping parameter for TC_26_6_13_1, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma1, default : 2
TSPX_Ma1	MAC	PIXIT TC	mobile allocation (GSM 04.08 10.5.2.21) for TC_26_6_13_1, its value shall indicate number of frequencies between 1 and 17. default : '010101'O
TSPX_Hsn1	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_1. default: 1
TSPX_Maio2	INTEGER	PIXIT TC	Mobile allocation index offset hopping parameter for TC_26_6_13_1, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma2, default : 8
TSPX_Ma2	MAC	PIXIT TC	mobile allocation for TC_26_6_13_1, its value shall indicate number of frequencies between 1 and 17. default :'01362A5'O
TSPX_Hsn2	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_1, default : 6

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Maio3	INTEGER	PIXIT TC	Mobile allocation index offset hopping parameter for TC_26_6_13_1, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma3, default : 14
TSPX_Ma3	MAC	PIXIT TC	mobile allocation for TC_26_6_13_1, its value shall indicate number of frequencies between 1 and 17. default :'01FFFA'O
TSPX_Hsn3	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_1, default : 0
TSPX_Chtp2	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_2, any value supported by the MS
TSPX_ChMod2	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_2
TSPX_Maio4	INTEGER	PIXIT TC	Mobile allocation index offset hopping parameter for TC_26_6_13_2, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma4, default : 3
TSPX_Ma4	MAC	PIXIT TC	mobile allocation for TC_26_6_13_2, its value shall indicate number of frequencies between 1 and 17. default : '001141'O
TSPX_Hsn4	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_2, default : 0
TSPX_Maio5	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_2, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma5, default : 9
TSPX_Ma5	MAC	PIXIT TC	mobile allocation for TC_26_6_13_2, its value shall indicate number of frequencies between 1 and 17. default : '01ABCB'O
TSPX_Hsn5	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_2, default : 16
TSPX_Chtp3	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_3, any value supported by the MS

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Maio6	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_3, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma6, default : 4
TSPX_Ma6	MAC	PIXIT TC	mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 1 and 17. default :'006248'O
TSPX_Hsn6	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_3, default : 4
TSPX_Maio7	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_3, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma7, default : 10
TSPX_Ma7	MAC	PIXIT TC	mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 2 and 17. default : '009AFB'O
TSPX_Chtp4	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_3, any value supported by the MS
TSPX_Maio8	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_3, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma8, default : 1
TSPX_Ma8	MAC	PIXIT TC	mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 2 and 17. default : '002800'O
TSPX_Hsn8	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_3, default : 40
TSPX_Maio9	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_3, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma9, default : 15
TSPX_Ma9	MAC	PIXIT TC	mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 2 and 17. default : '01FFFB'O

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Hsn9	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_3, default : 8
TSPX_Chtp5	CH_TDMA	PIXIT TC	SDCCH8 subchannel immediately assigned, TC_26_6_13_4
TSPX_Maio10	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_4, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma10, default : 5
TSPX_Ma10	MAC	PIXIT TC	mobile allocation for TC_26_6_13_4, its value shall indicate number of frequencies between 1 and 17. default : '01D082'O
TSPX_Hsn10	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_4, default: 0
TSPX_Maio11	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_4, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma11, default : 11
TSPX_Ma11	MAC	PIXIT TC	mobile allocation for TC_26_6_13_4, its value shall indicate number of frequencies between 2 and 17. default : '00CFF3'O
TSPX_Chtp6	CH_TDMA	PIXIT TC	channel type of a non−existing channel in Assignment Cmd, TC_26_6_13_4
TSPX_Maio12	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_4, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma12, default : 1
TSPX_Ma12	MAC	PIXIT TC	mobile allocation for TC_26_6_13_4, its value shall indicate number of frequencies between 1 and 17. default : '010100'O
TSPX_Hsn12	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_4, default : 39

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Maio13	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_4, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma13, default : 6
TSPX_Ma13	MAC	PIXIT TC	mobile allocation for TC_26_6_13_4, its value shall indicate number of frequencies between 1 and 17. default : ’00E690’O
TSPX_Hsn13	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_4, default: 42
TSPX_Chtp7	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_5
TSPX_ChMod4	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_5
TSPX_Maio14	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_5, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma14, default : 5
TSPX_Ma14	MAC	PIXIT TC	mobile allocation for TC_26_6_13_5, its value shall indicate number of frequencies between 1 and 17. default : ’004A28’O
TSPX_Hsn14	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_5, default : 50
TSPX_Maio15	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_5, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma15, default : 12
TSPX_Ma15	MAC	PIXIT TC	mobile allocation for TC_26_6_13_5, its value shall indicate number of frequencies between 1 and 16. default : ’00FF79’O
TSPX_Hsn15	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_5, default : 33
TSPX_Maio16	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_5, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma16, default : 2

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Ma16	MAC	PIXIT TC	mobile allocation for TC_26_6_13_5, its value shall indicate number of frequencies between 1 and 16. default : '001110'O
TSPX_Hsn16	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_5, default : 21
TSPX_Chtp8	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_6
TSPX_ChMod5	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_6
TSPX_Maio17	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_6, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma17, default : 7
TSPX_Ma17	MAC	PIXIT TC	mobile allocation for TC_26_6_13_6, its value shall indicate number of frequencies between 1 and 17. default : '00E6A1'O
TSPX_Hsn17	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_6, default : 22
TSPX_Maio18	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_6, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma18, default : 13
TSPX_Ma18	MAC	PIXIT TC	mobile allocation for TC_26_6_13_6, its value shall indicate number of frequencies between 1 and 16. default : '00FFF9'O
TSPX_Hsn18	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_6, default : 9
TSPX_Maio19	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_6, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma19, default : 3
TSPX_Ma19	MAC	PIXIT TC	mobile allocation for TC_26_6_13_6, its value shall indicate number of frequencies between 1 and 16. default : '001111'O
TSPX_Hsn19	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_6, default : 44

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Chtp9	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_7
TSPX_ChMod6	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_7
TSPX_Maio20	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_7, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma20, default : 8
TSPX_Ma20	MAC	PIXIT TC	mobile allocation for TC_26_6_13_7, its value shall indicate number of frequencies between 1 and 17. default : ’016699’O
TSPX_Hsn20	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_7, default : 30
TSPX_Maio21	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_7, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma21, default : 14
TSPX_Ma21	MAC	PIXIT TC	mobile allocation for TC_26_6_13_7, its value shall indicate number of frequencies between 1 and 17. default : ’01FEFB’O
TSPX_Chtp10	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_7
TSPX_Maio22	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_7, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma22, default : 4
TSPX_Ma22	MAC	PIXIT TC	mobile allocation for TC_26_6_13_7, its value shall indicate number of frequencies between 1 and 16. default : ’006241’O
TSPX_Hsn22	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_7, default : 11
TSPX_Maio23	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_7, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma23, default : 11

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Ma23	MAC	PIXIT TC	mobile allocation for TC_26_6_13_7, its value shall indicate number of frequencies between 1 and 16. default : ’00FF1B’O
TSPX_Hsn23	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_7, default : 60
TSPX_Chtp11	CH_TDMA	PIXIT TC	SDCCH8 subchannel immediately assigned, TC_26_6_13_8
TSPX_ChMod7	CHMOD_VAL	PIXIT TC	channel mode for TC_26_6_13_8
TSPX_Maio24	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_8, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma24, default : 9
TSPX_Ma24	MAC	PIXIT TC	mobile allocation for TC_26_6_13_8, its value shall indicate number of frequencies between 1 and 17. default : ’00E6E9’O
TSPX_Hsn24	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_8, default : 7
TSPX_Maio25	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_8, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma25, default : 15
TSPX_Ma25	MAC	PIXIT TC	mobile allocation for TC_26_6_13_8, its value shall indicate number of frequencies between 1 and 17. default : ’01FFFB’O
TSPX_Chtp12	CH_TDMA	PIXIT TC	channel type of a non−existing channel in Assignment Cmd, TC_26_6_13_8
TSPX_Maio26	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_8, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma26, default : 5
TSPX_Ma26	MAC	PIXIT TC	mobile allocation for TC_26_6_13_8, its value shall indicate number of frequencies between 1 and 16. default : ’009168’O

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Hsn26	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_8, default : 9
TSPX_Maio27	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_8, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma27, default : 1
TSPX_Ma27	MAC	PIXIT TC	mobile allocation for TC_26_6_13_8, its value shall indicate number of frequencies between 1 and 16. default : ’004080’O
TSPX_Hsn27	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_8, default : 38
TSPX_Chtp13	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_9
TSPX_Tm3	INTEGER	PIXIT TC	starting time, in frames, included in the Immediate Assignment message in TC_26_6_13_9, value between 60 −100
TSPX_Maio28	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_9, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma28, default : 10
TSPX_Ma28	MAC	PIXIT TC	mobile allocation for TC_26_6_13_9, its value shall indicate number of frequencies between 1 and 17. default : ’00EE7A’O
TSPX_Hsn28	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_9, default : 11
TSPX_Maio29	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_9, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma29, default : 6
TSPX_Ma29	MAC	PIXIT TC	mobile allocation for TC_26_6_13_9, its value shall indicate number of frequencies between 1 and 17. default : ’00F070’O
TSPX_Chtp14	CH_TDMA	PIXIT TC	channel type for TC_26_6_13_10

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_Maio30	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_10, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma30, default : 11
TSPX_Ma30	MAC	PIXIT TC	mobile allocation for TC_26_6_13_10, its value shall indicate number of frequencies between 1 and 17. default : ’017F69’O
TSPX_Hsn30	INTEGER	PIXIT TC	hopping sequence number for TC_26_6_13_10, default : 62
TSPX_Maio31	INTEGER	PIXIT TC	mobile allocation index offset hopping parameter for TC_26_6_13_10, its value between 0 and (the number of frequencies) −1, which is defined in TSPX_Ma31, default : 1
TSPX_Ma31	MAC	PIXIT TC	mobile allocation for TC_26_6_13_10, its value shall indicate number of frequencies between 1 and 17. default : ’000101’O
TSPX_MOBscSvcA	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcB	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcC	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcD	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcE	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcF	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcG	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcH	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcI	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MOBscSvcJ	SERVICES	PIXIT TC	any supported MO basic service
TSPX_MT_DualModSvc	SERVICES	PIXIT TC	any supported MT dual mode service
TSPX_MT_NonSptSvc	SERVICES	PIXIT TC	any not supported MT basic service
TSPX_MTBscSvcA	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcB	SERVICES	PIXIT TC	any supported MT basic service

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_MTBscSvcC	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcD	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcE	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcF	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcG	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcH	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcI	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTBscSvcJ	SERVICES	PIXIT TC	any supported MT basic service
TSPX_MTNIC_BscSvcA	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcB	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcC	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcD	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcE	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcF	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcG	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcH	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcI	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_MTNIC_BscSvcJ	SERVICES	PIXIT TC	any supported MT basic service without immediate connection
TSPX_Telephony_Rate	RATE	PIXIT TC	channel rate for TS11, default value : "F"
TSPX_MOChRateA	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcA, default value : "F"
TSPX_MOChRateB	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcB, default value : "F"

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_MOChRateC	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcC, default value : "F"
TSPX_MOChRateD	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcD, default value : "F"
TSPX_MOChRateE	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcE, default value : "F"
TSPX_MOChRateF	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcF, default value : "F"
TSPX_MOChRateG	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcG, default value : "F"
TSPX_MOChRateH	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcH, default value : "F"
TSPX_MOChRateI	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcI, default value : "F"
TSPX_MOChRateJ	RATE	PIXIT TC	channel rate for TSPX_MOBscSvcJ, default value : "F"
TSPX_MTChRateA	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcA, default value : "F"
TSPX_MTChRateB	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcB, default value : "F"
TSPX_MTChRateC	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcC, default value : "F"
TSPX_MTChRateD	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcD, default value : "F"
TSPX_MTChRateE	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcE, default value : "F"
TSPX_MTChRateF	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcF, default value : "F"
TSPX_MTChRateG	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcG, default value : "F"
TSPX_MTChRateH	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcH, default value : "F"
TSPX_MTChRateI	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcI, default value : "F"
TSPX_MTChRateJ	RATE	PIXIT TC	channel rate for TSPX_MTBscSvcJ, default value : "F"

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
TSPX_MTNIC_ChRateA	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcA, default value : "F"
TSPX_MTNIC_ChRateB	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcB, default value : "F"
TSPX_MTNIC_ChRateC	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcC, default value : "F"
TSPX_MTNIC_ChRateD	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcD, default value : "F"
TSPX_MTNIC_ChRateE	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcE, default value : "F"
TSPX_MTNIC_ChRateF	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcF, default value : "F"
TSPX_MTNIC_ChRateG	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcG, default value : "F"
TSPX_MTNIC_ChRateH	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcH, default value : "F"
TSPX_MTNIC_ChRateI	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcI, default value : "F"
TSPX_MTNIC_ChRateJ	RATE	PIXIT TC	channel rate for TSPX_MTNIC_BscSvcJ, default value : "F"
TSPX_EmgCallRate	RATE	PIXIT TC	Rate for the basic service supported for MO emergency calls
TSPX_MO_NonCallSS	SERVICES	PIXIT TC	any supported MO non−call releated supplementary service
TSPX_MO_BscSvc_SMS	SERVICES	PIXIT TC	any supported MO SMS calls
TSPX_MO_DualModSvc	SERVICES	PIXIT TC	any supported MO dual mode call
TSPX_MO_DualModRate	RATE	PIXIT TC	Rate for the supported MO dual mode call in TSPX_MO_DualModSvc
TSPX_ESIND	B_1	PIXIT MS	Controlled early ClassMark sending option implementation − default 0, not implemented
TSPX_MsrCellPresent	INTEGER	PIXIT MS	The number of measurement reports to be received − which include measurements of the second cell − prior to handover to that cell. Range 1 to 4 inclusive. Default = 4
Detailed Comments :			

Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SelExpr_0000	TRUE	General test group always selected
SelExpr_0001	TRUE	always selected
SelExpr_0002	TSPC_MTsvc	MT circuit switched basic service supported
SelExpr_0003	NOT TSPC_Serv_SS_AoCC	AOCC not supported
SelExpr_0004	TSPC_Serv_SS_AoCC AND (NOT TSPC_Serv_SS_HOLD)	AOCC supported but Call Hold not supported
SelExpr_0005	TSPC_Serv_SS_AoCC AND TSPC_Serv_SS_HOLD AND (NOT TSPC_Serv_SS_MPTY)	AOCC and Call Hold supported but multiparty not supported
SelExpr_0006	NOT TSPC_Feat_FND	FND feature not supported
SelExpr_0007	TSPC_MOsvc	MO circuit switched basic service supported
SelExpr_0100	TRUE	initial test group always selected
SelExpr_0101	TRUE	always selected
SelExpr_0102	TSPC_SvcOnTCH	at least one service on traffic channel supported
SelExpr_0103	TSPC_DualRate	half rate channel supported
SelExpr_0104	TSPC_Serv_BS21 OR TSPC_Serv_BS22 OR TSPC_Serv_BS23 OR TSPC_Serv_BS24 OR TSPC_Serv_BS25 OR TSPC_Serv_BS26 OR TSPC_Serv_BS31 OR TSPC_Serv_BS32 OR TSPC_Serv_BS33 OR TSPC_Serv_BS34 OR TSPC_Serv_BS41 OR TSPC_Serv_BS42 OR TSPC_Serv_BS43 OR TSPC_Serv_BS44 OR TSPC_Serv_BS45 OR TSPC_Serv_BS46 OR TSPC_Serv_BS51 OR TSPC_Serv_BS52 OR TSPC_Serv_BS53 OR TSPC_Serv_BS61 OR TSPC_Serv_BS81 OR TSPC_Serv_TS61 OR TSPC_Serv_TS62	at least one data service supported
SelExpr_0105	TSPC_NonCallSS	non call related supplementary service supported
SelExpr_0106	TSPC_Serv_TS22	MO short message service supported
SelExpr_0107	TSPC_Serv_TS11 OR TSPC_Serv_TS12	speech supported
SelExpr_0200	TRUE	idleMode test group always selected
SelExpr_0201	TRUE	always selected
SelExpr_0300	TRUE	BiBo test group always selected
SelExpr_0301	TSPC_Serv_TS11 OR TSPC_Serv_TS12 OR SelExpr_0104	CC protocol for at least one BC supported
SelExpr_0302	TRUE	always selected
SelExpr_0400	TRUE	RR test group always selected
SelExpr_0401	TRUE	always selected

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SelExpr_0402	SelExpr_0301	CC protocol for at least one BC supported
SelExpr_0403	SelExpr_0301	Full rate traffic channel supported
SelExpr_0404	TSPC_DualRate	Dual rate traffic channel supported
SelExpr_0405	SelExpr_0301 AND (TSPC_Feat_A51 OR TSPC_Feat_A52)	call control protocol and (A5/1 or A5/2) algorithm supported
SelExpr_0406	SelExpr_0301 AND TSPC_RFAmp	call control protocol and RF amplification supported
SelExpr_0407	SelExpr_0301	call control protocol and full rate traffic channel supported
SelExpr_0408	SelExpr_0301 AND TSPC_DualRate	call control protocol and dual rate traffic channel supported
SelExpr_0409	SelExpr_0301 AND TSPC_AddInfo_PseudoSynch	CC protocol for at least one BC supported and Pseudo synchronised supported
SelExpr_0410	TSPC_MOsvc	at least one MO circuit switched basic service supported
SelExpr_0500	TRUE	MM test group always selected
SelExpr_0501	TRUE	always selected
SelExpr_0502	TSPC_SIMRmv	SIM removable without power down supported
SelExpr_0503	TSPC_Serv_TS11 OR TSPC_Serv_TS12	speech supported
SelExpr_0504	TSPC_NonCallSS	The MS supports a non call related supplementary service operation during an active call
SelExpr_0600	TSPC_MOsvc OR TSPC_MTsvc	CC test group
SelExpr_0601	TSPC_MOsvc AND (NOT TSPC_EmgOnly)	at least one mobile originating circuit switched basic service supported and not only emergency call supported
SelExpr_0602	(TSPC_NoimmConn) AND TSPC_MTsvc	immediate connect not supported and at least one mobile terminated circuit switched basic service supported
SelExpr_0603	TSPC_RefusalCall AND TSPC_MTsvc	refusal of call supported and at least one mobile terminated circuit switched basic service supported
SelExpr_0604	TSPC_Serv_TS11 OR TSPC_Serv_TS12 OR TSPC_Serv_TS61 OR TSPC_Serv_BS61 OR TSPC_Serv_BS81	speech supported
SelExpr_0605	SelExpr_0604 AND TSPC_AlertInd	speech & alerting supported
SelExpr_0606	TSPC_MTsvc	at least one mobile terminated circuit switched basic service supported
SelExpr_0607	TSPC_Serv_TS61 OR TSPC_Serv_BS61 OR TSPC_Serv_BS81	dual mode services supported
SelExpr_0700	SelExpr_0301	StrcutureProc test group
SelExpr_0701	TSPC_Serv_TS11 OR TSPC_Serv_TS62	at least one teleservice (except emergency call and dual service) supported
SelExpr_0702	TSPC_Serv_TS12	emergency call supported
SelExpr_0703	TSPC_Serv_TS12 AND TSPC_DualRate	dual rate emergency call supported

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SelExpr_0800	TSPC_SS	SS test group
SelExpr_0801	TSPC_Serv_SS_BOIC OR TSPC_Serv_SS_BAIC OR TSPC_Serv_SS_BOICexHC OR TSPC_Serv_SS_BICRoam OR TSPC_Serv_SS_BAOC	at least one of call restrictions supported
SelExpr_0802	TSPC_Serv_SS_AoCC	AOCC supported
SelExpr_0803	TSPC_Serv_SS_BOIC	BOIC supported
SelExpr_0804	TSPC_Serv_SS_BAIC	BAIC supported
SelExpr_0805	TSPC_Serv_SS_BOICexHC	BOICExHC supported
SelExpr_0806	TSPC_Serv_SS_BOICexHC OR TSPC_Serv_SS_BAIC	BOICExHC OR BAIC supported
SelExpr_0807	TSPC_Serv_SS_BOIC OR TSPC_Serv_SS_BICRoam	BOIC OR BICRoam supported
SelExpr_0808	TSPC_Serv_SS_BI	BI supported
SelExpr_0809	TSPC_Serv_SS_CFNRy OR TSPC_Serv_SS_CFU	CFNNRy or CFU supported
SelExpr_0810	TSPC_Serv_SS_CFB OR TSPC_Serv_SS_CFU OR TSPC_Serv_SS_CFNRc OR TSPC_Serv_SS_CFNRy	CFB or CFU or CFNRy or CFNRc supported
SelExpr_0811	TSPC_Serv_SS_CFB OR TSPC_Serv_SS_CFNRc OR TSPC_Serv_SS_CFNRy	CFNRy or CFNRc or CFB supported
SelExpr_0812	TSPC_Serv_SS_CFNRc OR TSPC_Serv_SS_CFB	CFNNRc or CFB supported
SelExpr_0813	TSPC_Serv_SS_CFB	CFB supported
SelExpr_0814	TSPC_Serv_SS_BICRoam OR TSPC_Serv_SS_BAOC	BAOC or BICRoam supported
SelExpr_0815	TRUE	always selected
SelExpr_0816	TSPC_Serv_SS_unstruct	USSD supported
SelExpr_0817	TSPC_Serv_SS_unstruct AND SelExpr_0301	USSD and CC protocol for at least one BC supported
SelExpr_0818	TSPC_Serv_SS_AoCC AND TSPC_SIMRmv	AOCC and SIM removable without power down supported
SelExpr_0819	TSPC_Serv_SS_AoCC AND TSPC_Serv_SS_HOLD	AOCC and Call Hold supported
SelExpr_0820	TSPC_Serv_SS_AoCC AND TSPC_Serv_SS_MPTY	AOCC and Multi Party service supported
SelExpr_0821	TSPC_Serv_SS_AoCC AND TSPC_SwitchOnOff	AOCC and switch on/off supported
SelExpr_0900	TSPC_SMS	SMS test group
SelExpr_0901	TSPC_Serv_TS21 AND SelExpr_0301	MT/PP supported and CC protocol for at least one BC supported
SelExpr_0902	TSPC_Serv_TS22 AND TSPC_Serv_TS21 AND SelExpr_0301	MO/PP supported and MT/PP supported and CC protocol for at least one BC supported
SelExpr_0903	TSPC_Serv_TS21 AND TSPC_StoreRcvSMSSIM	MO/PP supported AND storage of SMS in the ME supported AND storage of SMS in the SIM supported
SelExpr_0904	TSPC_Serv_TS22 AND TSPC_Serv_TS21 AND TSPC_SMSStatusRepCap	MO/PP supported AND MT/PP supported AND SMS Status report capabilities supported

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SelExpr_0905	TSPC_Serv_TS21 AND TSPC_DispRcvSMS	MT/PP supported AND display of received short message supported
SelExpr_0906	TSPC_Serv_TS21 AND TSPC_DispRcvSMS AND (TSPC_StoreRcvSMSME OR TSPC_StoreRcvSMSSIM)	MT/PP supported AND display of received short message supported AND (storage of SMS in the ME supported OR storage of SMS in the SIM supported)
SelExpr_0907	TSPC_Serv_TS21 AND TSPC_StoreRcvSMSSIM	MT/PP supported AND display of received short message supported AND storage of SMS in the SIM supported
SelExpr_0908	TSPC_Serv_TS21 AND TSPC_ReplaceSMS AND TSPC_DispRcvSMS	MT/PP supported AND "replace short message" and "display of received short message" supported
SelExpr_0909	TSPC_Serv_TS22 AND TSPC_Serv_TS21 AND TSPC_ReplyProc AND TSPC_DispRcvSMS	MO/PP supported AND MT/PP supported AND "reply procedure" and "display of received short message" supported
SelExpr_1000	TSPC_EGSM	E− band supported
SelExpr_1001	SelExpr_0301	CC protocol for at least one BC supported
SelExpr_1002	TSPC_Serv_TS11 OR TSPC_Serv_TS61 OR TSPC_Serv_TS62	telephony supported or alternate speech/data supported or Teleservice automatic G3 fax supported
SelExpr_1003	TSPC_Serv_TS12	emergency call supported
SelExpr_1100	TRUE	MS Features
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_arfcnA	INTEGER	20	ARFCN 20
C_arfcn_1	INTEGER	1	ARFCN 1
C_arfcn_2	INTEGER	2	ARFCN 2
C_arfcn_1015	INTEGER	1015	ARFCN 1015
C_arfcn_10	INTEGER	10	ARFCN 10
C_arfcn_34	INTEGER	34	ARFCN 34
C_arfcnB	INTEGER	10	ARFCN of cell B
C_arfcnC	INTEGER	30	ARFCN 30
C_arfcnH	INTEGER	44	ARFCN 44
C_arfcnAd	INTEGER	590	ARFCN 590
C_arfcnAd_1	INTEGER	520	ARFCN 520
C_arfcnAd_2	INTEGER	514	ARFCN 514
C_arfcnAd_3	INTEGER	715	ARFCN 715
C_arfcnAd_4	INTEGER	747	ARFCN 747
C_arfcnAd_5	INTEGER	734	ARFCN 734
C_arfcnAd_6	INTEGER	759	ARFCN 759
C_arfcnBd	INTEGER	520	ARFCN 520
C_arfcnCd	INTEGER	700	ARFCN 700
C_arfcnHd	INTEGER	810	ARFCN 810
C_arfcn_tchA	INTEGER	30	ARFCN f30
C_arfcn_tchAd	INTEGER	650	ARFCN 650
C_arfcn_tchB	INTEGER	114	ARFCN 114
C_arfcn_tchBd	INTEGER	844	ARFCN 844
C_arfcnEgsm	INTEGER	990	ARFCN 990
C_arfcnEgsm_iacmd	INTEGER	20	ARFCN 20
C_arfcnEgsm_asscmd	INTEGER	20	ARFCN 20
C_BCCHcarrierB_ho	INTEGER	40	BCCH frequency number of cell B for Ho cases (GSM: 40)
C_BCCHcarrierB_hod	INTEGER	764	BCCH frequency number of cell B for Ho cases (DCS:764)
C_Noarfcn	INTEGER	65534	No arfcn defined (hopping channel)
C_ATT_0	INTEGER	0	Attach value 0
C_ATT_1	INTEGER	1	Attach value 1
C_NCC	NCC	’001’B	Network color code
C_NCC_0	NCC	’000’B	Network color code value ’000’B
C_NCC_1	NCC	’001’B	Network color code value ’001’B
C_NCC_2	NCC	’010’B	Network color code value ’010’B
C_NCC_3	NCC	’011’B	Network color code value ’011’B
C_NCC_4	NCC	’100’B	Network color code value ’100’B
C_NCC_5	NCC	’101’B	Network color code value ’101’B

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_NCC_6	NCC	’110’B	Network color code value ’110’B
C_NCC_7	NCC	’111’B	Network color code value ’111’B
C_NCCP_2	NCCP	’02’O	Network color code permitted value ’02’O
C_NCCP_10	NCCP	’0A’O	Network color code permitted value ’0A’O
C_BCC	BCC	’101’B	Base Station color code
C_BCC_0	BCC	’000’B	Base Station color code value 0
C_BCC_1	BCC	’001’B	Base Station color code value 1
C_BCC_3	BCC	’011’B	Base Station color code value 3
C_BCC_5	BCC	’101’B	Base Station color code value 5
C_BCC_7	BCC	’111’B	Base Station color code value 7
C_cch_1nonComb	B_3	’000’B	cch_con = 1 basic ch non combined
C_cch_1Comb	B_3	’001’B	cch_con = 1 basic ch combined
C_cch_2Comb	B_3	’011’B	cch_con = 2 basic ch combined
C_cch_3Comb	B_3	’101’B	cch_con = 3 basic ch combined
C_cch_4Comb	B_3	’111’B	cch_con = 4 basic ch combined
C_cch_2nonComb	B_3	’010’B	cch_con = 2 basic chs non combined
C_cch_3nonComb	B_3	’100’B	cch_con = 3 basic chs non combined
C_cch_4nonComb	B_3	’110’B	cch_con = 4 basic chs non combined
C_cchd_e_407	OCTETSTRING	’8DEA0DF4CC6C4AFAFB1 0000000000000’O	f−list for cellchdescr using of 128 format. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}. Length = 16 TC_26_10_4, k=2, c=1 TC_26.10.6, c=1
C_cchd_e_408	OCTETSTRING	’8A0A1CFD3EF4610E2FFF FA0000000000’O	f−list for cellchdescr using of 256 format. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114,115} Length = 16 TC_26_10_4, k=2, c=2 TC_26.10.6, c=2

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_cchd_e_409	OCTETSTRING	’89EA037F433C7B042BFE BFEC10000000’O	f−list for cellchdescr using of 512 format. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}. Length = 16 TC_26_10_4, k=2, c=3 TC: 26.10.6 c=3
C_cchd_e_410	OCTETSTRING	’841EEA893EF98143B161 000000000000’O	f−list for cellchdescr using of 1024 format. Length = 16
C_cchd_e_411	OCTETSTRING	’8FEA703E0842100000000 00000000000’O	f−list for cellchdescr using of variable bit format. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}. Length = 16 TC_26_10_4, k=2, c=5 TC: 26.10.6 c=5
C_cchd_e_412	OCTETSTRING	’0002080000007F0200000 08000080000’O	f−list for cellchdescr using of bit map 0 format. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114,115} Length = 16 TC_26_10_4, k=2, c=6
C_cchd_e_414	OCTETSTRING	’000000000000002000020 00020080000’O	f−list for cellchdescr using of bit map 0 format. Length = 16 f_list: 30, 50 ,70 TC: 26.10.6 c=6
C_cchd_e_415	OCTETSTRING	’841EEA893EF9814380000 00000000000’O	f−list for cellchdescr using range 1024 format. The coded set is {0, 30, 40, 66, 80, 1005, 1010, 1015}. Length = 16 TC_26_10_4, k=2, c=4 TC: 26.10.6 c=4
C_ChMod_s	CHMOD_VAL	’00000000’B	Mode : signalling only.
C_ChMod_r	CHMOD_VAL	’00000001’B	Mode : speech full or half rate.
C_ChMod_12k	CHMOD_VAL	’00000011’B	Mode : 12k radio rate.
C_ChMod_6k	CHMOD_VAL	’00001011’B	Mode : 6k radio rate.
C_ChMod_3k	CHMOD_VAL	’00010011’B	Mode : 3.6k radio rate.
C_Sap0	SAPID	’00’O	service access point 0
C_Sap3	SAPID	’03’O	service access point 3
C_CellA	CellID	"C_CellA"	cell A −− cell 1
C_CellB	CellID	"C_CellB"	cell B −− cell 2
C_CellC	CellID	"C_CellC"	cell C −− cell 3
C_CellD	CellID	"C_CellD"	cell D −− cell 4
C_CellE	CellID	"C_CellE"	cell E −− cell 5
C_CellF	CellID	"C_CellF"	cell F −− cell 6
C_CellG	CellID	"C_CellG"	cell G −− cell 7
C_CellH	CellID	"C_CellH"	cell H −− cell 8

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_ci_cellA	CI	’0001’O	Cell Id for cell A
C_ci_cellB	CI	’0002’O	Cell Id for cell B
C_ci_cellC	CI	’0003’O	Cell Id for cell C
C_ci_cellD	CI	’0004’O	Cell Id for cell D
C_ci_cellE	CI	’0005’O	Cell Id for cell E
C_ci_cellF	CI	’0006’O	Cell Id for cell F
C_ci_cellG	CI	’0007’O	Cell Id for cell G
C_ci_cellH	CI	’0008’O	Cell Id for cell H
C_cksn_nokey	BITSTRING	’111’B	No key available
C_E_default	INTEGER	63	Default field strength
C_E_neighbourdefault	INTEGER	53	Default field strength of neighbouriong cells.
C_E_suitable	INTEGER	45	Field strength of a suitable cell
C_E_notsuitable	INTEGER	−10	Field strength of a not suitable cell for reselection (C1 < 0)
C_E_notsuitable_fSel	INTEGER	24	Field strength of a not suitable cell for selection
C_flist_e_401s	OCTETSTRING	’8DF68AEC0000000000’O	It includes the list of f’s in EGSM test cases. The coded set is {1005, 1010, 1015}. range 128 format Length = 9 TC_26_10_4, k=1, c=1 TC: 26.10.5.1 k=1/2,c=1
C_flist_e_402s	OCTETSTRING	’8A2481FF03F8000000’O	It includes the list of f’s in EGSM test cases. The coded set is {73, 74, 75, 76, 77}, range 256 format. Length = 9 TC_26_10_4, k=1, c=2 TC: 26.10.5.1 k=1/2,c=2
C_flist_e_403s	OCTETSTRING	’89EA00BFC040000000’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 981, 982, 983}, range 512 format. Length = 9 TC_26_10_4, k=1, c=3 TC: 26.10.5.1 k=1/2,c=3
C_flist_e_404s	OCTETSTRING	’801EED02BEC0000000’O	It includes the list of f’s in EGSM test cases. The coded set is {30, 40, 1010, 1015}, range 1024 format. Length = 9 TC_26_10_4, k=1, c=4 TC: 26.10.5.1 k=1/2,c=4
C_flist_e_405s	OCTETSTRING	’8FEA001E0000100000’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 991, 992, 993, 994, 1015}. Length = 9 TC_26_10_4, k=1, c=5 TC: 26.10.5.1 k=1/2,c=5

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_flist_e_401	OCTETSTRING	’8DF68AEC00’O	It includes the list of f’s in EGSM test cases. The coded set is {1005, 1010, 1015}. range 128 format Length = 5 TC_26_10_4, k=1, c=1 TC: 26.10.5.1 k=1/2,c=1
C_flist_e_402	OCTETSTRING	’8A2481FF03F8’O	It includes the list of f’s in EGSM test cases. The coded set is {73, 74, 75, 76, 77}, range 256 format. Length = 6 TC_26_10_4, k=1, c=2 TC: 26.10.5.1 k=1/2,c=2
C_flist_e_403	OCTETSTRING	’89EA00BFC040’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 981, 982, 983}, range 512 format. Length = 6 TC_26_10_4, k=1, c=3 TC: 26.10.5.1 k=1/2,c=3
C_flist_e_404	OCTETSTRING	’801EED02BEC0’O	It includes the list of f’s in EGSM test cases. The coded set is {30, 40, 1010, 1015}, range 1024 format. Length = 6 TC_26_10_4, k=1, c=4 TC: 26.10.5.1 k=1/2,c=4
C_flist_e_405	OCTETSTRING	’8FEA001E000010’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 991, 992, 993, 994, 1015}. Length = 7 TC_26_10_4, k=1, c=5 TC: 26.10.5.1 k=1/2,c=5
C_flist_e_406	OCTETSTRING	’00000000000000200000 08000080000’O	It includes the list of f’s in EGSM test cases. The coded set is {20, 40, 66}, bitmap 0 format. Length = 16 TC_26_10_4, k=1, c=6 TC: 26.10.5.1 k=2,c=6
C_flist_e_407	OCTETSTRING	’8DEA0DF4CC6C4AFAFB1 0000000000000’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}, range 128 format. Length = 16 TC_26_10_4, k=2, c=1 TC: 26.10.5.1 k=3,c=1 TC: 26.10.6 c=1

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_flist_e_408	OCTETSTRING	’8A0A1CFD3EF4610E2FFFFA0000’O	It includes the list of f’s in EGSM test cases. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114, 115}, range 256 format. Length = 13 TC_26_10_4, k=2, c=2 TC: 26.10.5.1 k=3,c=2 TC: 26.10.6 c=2
C_flist_e_409	OCTETSTRING	’89EA037F433C7B042BFEBFEC10000000’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}, range 512 format. Length = 16 TC_26_10_4, k=2, c=3 TC: 26.10.5.2 k=3,c=3 TC: 26.10.6 c=3
C_flist_e_410	OCTETSTRING	’841EEA893EF98143B161’O	Length = 10 TC: 26.10.5.2 k=3,c=4
C_flist_e_411	OCTETSTRING	’8FEA703E084210’O	It includes the list of f’s in EGSM test cases. The coded set is {980, 981, 982, 983, 990, 991, 992, 993, 994, 1000, 1005, 1010, 1015}, variable bitmap format. Length = 7 TC_26_10_4, k=2, c=5 TC: 26.10.5.1 k=3,c=5 TC: 26.10.6 c=5
C_flist_e_412	OCTETSTRING	’0002080000007F020000008000080000’O	It includes the list of f’s in EGSM test cases. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114, 115}, bitmap 0 format. Length = 16 TC_26_10_4, k=2, c=6 TC: 26.10.5.1 k=3,c=6
C_flist_e_415	OCTETSTRING	’841EEA893EF9814380’O	It includes the list of f’s in EGSM test cases. The coded set is {0, 30, 40, 66, 80, 1005, 1010, 1015}, range 1024 format. Length = 9 Format: 1024 TC_26_10_4, k=2, c=4 TC: 26.10.6 c=4
C_flist_e_416	OCTETSTRING	’0002080000007F020000008000080000’O	bit map 0 format. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114} Length = 16
C_BABR_0	B_3	’000’B	BABR value 0
C_BABR_1	B_3	’001’B	BABR value 1
C_BABR_2	B_3	’010’B	BABR value 2
C_BPM_0	B_3	’000’B	BPM value 0, 2 multiframes

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_BPM_2	B_3	’010’B	BPM value 2, 4 multiframes
C_BPM_3	B_3	’011’B	BPM value 3, 5 multiframes
C_BPM_7	B_3	’111’B	BPM value 7, 9 multiframes
C_T3212_0	OCTETSTRING	’00’O	T3212 infinite
C_T3212_1	OCTETSTRING	’01’O	T3212 6 mn / 1 deci hours
C_T3212_2	OCTETSTRING	’02’O	T3212 12 mn / 2 deci hours
C_T3212_5	OCTETSTRING	’05’O	T3212 30 mn / 5 deci hours
C_IMSI	INTEGER	0	MI type: IMSI
C_TMSI	INTEGER	1	MI type: TMSI
C_IMEI	INTEGER	2	MI type: IMEI
C_IMEISV	INTEGER	3	MI type: IMEISV
C_shortIMSI	HEXSTRING	’001011234’H	A short IMSI
C_LAC_1	OCTETSTRING	’0001’O	lac 1.
C_LAC_2	OCTETSTRING	’0002’O	lac 2.
C_LAC_3	OCTETSTRING	’0003’O	lac 3.
C_LAC_4	OCTETSTRING	’0004’O	lac 4.
C_LAC_5	OCTETSTRING	’0005’O	lac 5.
C_LAC_6	OCTETSTRING	’0006’O	lac 6.
C_LAC_7	OCTETSTRING	’0007’O	lac 7.
C_LAC_8	OCTETSTRING	’0008’O	lac 8.
C_LAC_spe	OCTETSTRING	’5344’O	lac ’5344’H.
C_lacdeleted	OCTETSTRING	’FFFE’O	lac value deleted.
C_MCC_1	OCTETSTRING	’00F1’O	MCC 1
C_MCC_2	OCTETSTRING	’00F2’O	MCC 2
C_MCC_3	OCTETSTRING	’00F3’O	MCC 3
C_MCC_4	OCTETSTRING	’00F4’O	MCC 4
C_MCC_5	OCTETSTRING	’00F5’O	MCC 5
C_MCC_6	OCTETSTRING	’00F6’O	MCC 6
C_MCC_7	OCTETSTRING	’00F7’O	MCC 7
C_MCC_8	OCTETSTRING	’00F8’O	MCC 8
C_MCC_9	OCTETSTRING	’013B’O	MCC 9
C_Max_1	INTEGER	1	Max Retrans value 1
C_Max_2	INTEGER	2	Max Retrans value 2
C_Max_7	INTEGER	7	Max Retrans value 7
C_NECI_0	INTEGER	0	NECI value 0, not supported
C_NECI_1	INTEGER	1	NECI value 1, supported
C_PLMN_1	OCTETSTRING	’10’O	PLMN 1 (mnc=01)
C_PLMN_2	OCTETSTRING	’20’O	PLMN 2 (mnc=02)
C_PLMN_3	OCTETSTRING	’30’O	PLMN 3 (mnc=03)
C_PLMN_4	OCTETSTRING	’F0’O	PLMN 4
C_PLMN_5	OCTETSTRING	’F2’O	PLMN 5
C_PLMN_6	OCTETSTRING	’F3’O	PLMN 6
C_PLMN_7	OCTETSTRING	’F4’O	PLMN 7
C_PLMN_8	OCTETSTRING	’F5’O	PLMN 8
C_PLMN_9	OCTETSTRING	’F6’O	PLMN 9
C_PLMN_10	OCTETSTRING	’F7’O	PLMN 10
C_PLMN_Home	OCTETSTRING	’10’O	PLMN 1 (mnc=01)

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_TxInt_5	INTEGER	5	Tx Integer value 5
C_TxInt_7	INTEGER	7	Tx Integer value 7
C_TxInt_10	INTEGER	10	Tx Integer value 10
C_NotCombined	BOOLEAN	FALSE	CCCH not combined with SDCCH
C_Combined	BOOLEAN	TRUE	CCCH combined with SDCCH
C_FCCH_A	LOGICCH	"C_FCCH_A"	frequency correction channel of cell A(1)
C_FCCH_B	LOGICCH	"C_FCCH_B"	frequency correction channel of cell B(2)
C_FCCH_C	LOGICCH	"C_FCCH_C"	frequency correction channel of cell C(3)
C_FCCH_D	LOGICCH	"C_FCCH_D"	frequency correction channel of cell D(4)
C_FCCH_E	LOGICCH	"C_FCCH_E"	frequency correction channel of cell E(5)
C_FCCH_F	LOGICCH	"C_FCCH_F"	frequency correction channel of cell F(6)
C_FCCH_G	LOGICCH	"C_FCCH_G"	frequency correction channel of cell G(7)
C_FCCH_H	LOGICCH	"C_FCCH_H"	frequency correction channel of cell H(8)
C_SCH_A	LOGICCH	"C_SCH_A"	sync channel of cell A(1)
C_SCH_B	LOGICCH	"C_SCH_B"	sync channel of cell B(2)
C_SCH_C	LOGICCH	"C_SCH_C"	sync channel of cell C(3)
C_SCH_D	LOGICCH	"C_SCH_D"	sync channel of cell D(4)
C_SCH_E	LOGICCH	"C_SCH_E"	sync channel of cell E(5)
C_SCH_F	LOGICCH	"C_SCH_F"	sync channel of cell F(6)
C_SCH_G	LOGICCH	"C_SCH_G"	sync channel of cell G(7)
C_SCH_H	LOGICCH	"C_SCH_H"	sync channel of cell H(8)
C_BCCH_A_1	LOGICCH	"C_BCCH_A_1"	1st broadcast channel of cell A
C_BCCH_A_2	LOGICCH	"C_BCCH_A_2"	2nd broadcast channel of cell A
C_BCCH_A_3	LOGICCH	"C_BCCH_A_3"	3rd broadcast channel of cell A
C_BCCH_A_4	LOGICCH	"C_BCCH_A_4"	4th broadcast channel of cell A
C_BCCH_B_1	LOGICCH	"C_BCCH_B_1"	1st broadcast channel of cell B
C_BCCH_C_1	LOGICCH	"C_BCCH_C_1"	1st broadcast channel of cell C
C_BCCH_D_1	LOGICCH	"C_BCCH_D_1"	1st broadcast channel of cell D
C_BCCH_E_1	LOGICCH	"C_BCCH_E_1"	1st broadcast channel of cell E
C_BCCH_F_1	LOGICCH	"C_BCCH_F_1"	1st broadcast channel of cell F
C_BCCH_G_1	LOGICCH	"C_BCCH_G_1"	1st broadcast channel of cell G

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_BCCH_H_1	LOGICCH	"C_BCCH_H_1"	1st broadcast channel of cell H
C_CBCH_A	LOGICCH	"C_CBCH_A"	Cell broadcast channel in cell A
C_AGCH_A_1	LOGICCH	"C_AGCH_A_1"	1st down link CCCH (AGCH) of cell A
C_AGCH_A_2	LOGICCH	"C_AGCH_A_2"	2nd down link CCCH (AGCH) of cell A
C_AGCH_A_3	LOGICCH	"C_AGCH_A_3"	3rd down link CCCH (AGCH) of cell A
C_AGCH_A_4	LOGICCH	"C_AGCH_A_4"	4th down link CCCH (AGCH) of cell A
C_AGCH_B_1	LOGICCH	"C_AGCH_B_1"	1st down link CCCH (AGCH) of cell B
C_AGCH_B_2	LOGICCH	"C_AGCH_B_2"	2nd down link CCCH (AGCH) of cell B
C_AGCH_B_3	LOGICCH	"C_AGCH_B_3"	3rd down link CCCH (AGCH) of cell B
C_AGCH_B_4	LOGICCH	"C_AGCH_B_4"	4th down link CCCH (AGCH) of cell B
C_AGCH_C_1	LOGICCH	"C_AGCH_C_1"	1st down link CCCH (AGCH) of cell C
C_AGCH_C_2	LOGICCH	"C_AGCH_C_2"	2nd down link CCCH (AGCH) of cell C
C_AGCH_C_3	LOGICCH	"C_AGCH_C_3"	3rd down link CCCH (AGCH) of cell C
C_AGCH_C_4	LOGICCH	"C_AGCH_C_4"	4th down link CCCH (AGCH) of cell C
C_AGCH_D_1	LOGICCH	"C_AGCH_D_1"	1st down link CCCH (AGCH) of cell D
C_AGCH_E_1	LOGICCH	"C_AGCH_E_1"	1st down link CCCH (AGCH) of cell E
C_AGCH_F_1	LOGICCH	"C_AGCH_F_1"	1st down link CCCH (AGCH) of cell F
C_AGCH_G_1	LOGICCH	"C_AGCH_G_1"	1st down link CCCH (AGCH) of cell G
C_AGCH_H_1	LOGICCH	"C_AGCH_H_1"	1st down link CCCH (AGCH) of cell H
C_PCH_A_1	LOGICCH	"C_PCH_A_1"	1st down link CCCH (PCH) of cell A
C_PCH_A_2	LOGICCH	"C_PCH_A_2"	2nd down link CCCH (PCH) of cell A
C_PCH_A_3	LOGICCH	"C_PCH_A_3"	3rd down link CCCH (PCH) of cell A
C_PCH_A_4	LOGICCH	"C_PCH_A_4"	4th down link CCCH (PCH) of cell A
C_PCH_B_1	LOGICCH	"C_PCH_B_1"	1st down link CCCH (PCH) of cell B
C_PCH_B_2	LOGICCH	"C_PCH_B_2"	2nd down link CCCH (PCH) of cell B
C_PCH_B_3	LOGICCH	"C_PCH_B_3"	3rd down link CCCH (PCH) of cell B

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_PCH_B_4	LOGICCH	"C_PCH_B_4"	4th down link CCCH (PCH) of cell B
C_PCH_C_1	LOGICCH	"C_PCH_C_1"	1st down link CCCH (PCH) of cell C
C_PCH_C_2	LOGICCH	"C_PCH_C_2"	2nd down link CCCH (PCH) of cell C
C_PCH_C_3	LOGICCH	"C_PCH_C_3"	3rd down link CCCH (PCH) of cell C
C_PCH_C_4	LOGICCH	"C_PCH_C_4"	4th down link CCCH (PCH) of cell C
C_PCH_D_1	LOGICCH	"C_PCH_D_1"	1st down link CCCH (PCH and AGCH) of cell D
C_PCH_E_1	LOGICCH	"C_PCH_E_1"	1st down link CCCH (PCH) of cell E
C_PCH_F_1	LOGICCH	"C_PCH_F_1"	1st down link CCCH (PCH) of cell F
C_PCH_G_1	LOGICCH	"C_PCH_G_1"	1st down link CCCH (PCH) of cell G
C_PCH_H_1	LOGICCH	"C_PCH_H_1"	1st down link CCCH (PCH) of cell H
C_RACH_A_1	LOGICCH	"C_RACH_A_1"	1st uplink CCCH (RACH) of cell A
C_RACH_A_2	LOGICCH	"C_RACH_A_2"	2nd uplink CCCH (RACH) of cell A
C_RACH_A_3	LOGICCH	"C_RACH_A_3"	3rd uplink CCCH (RACH) of cell A
C_RACH_A_4	LOGICCH	"C_RACH_A_4"	4th uplink CCCH (RACH) of cell A
C_RACH_B_1	LOGICCH	"C_RACH_B_1"	1st uplink CCCH (RACH) of cell B
C_RACH_B_2	LOGICCH	"C_RACH_B_2"	2nd uplink CCCH (RACH) of cell B
C_RACH_B_3	LOGICCH	"C_RACH_B_3"	3rd uplink CCCH (RACH) of cell B
C_RACH_B_4	LOGICCH	"C_RACH_B_4"	4th uplink CCCH (RACH) of cell B
C_RACH_C_1	LOGICCH	"C_RACH_C_1"	1st uplink CCCH (RACH) of cell C
C_RACH_C_2	LOGICCH	"C_RACH_C_2"	2nd uplink CCCH (RACH) of cell C
C_RACH_C_3	LOGICCH	"C_RACH_C_3"	3rd uplink CCCH (RACH) of cell C
C_RACH_C_4	LOGICCH	"C_RACH_C_4"	4th uplink CCCH (RACH) of cell C
C_RACH_D_1	LOGICCH	"C_RACH_D_1"	1st uplink CCCH (RACH) of cell D
C_RACH_E_1	LOGICCH	"C_RACH_E_1"	1st uplink CCCH (RACH) of cell E
C_RACH_F_1	LOGICCH	"C_RACH_F_1"	1st uplink CCCH (RACH) of cell F
C_RACH_G_1	LOGICCH	"C_RACH_G_1"	1st uplink CCCH (RACH) of cell G

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_RACH_H_1	LOGICCH	"C_RACH_H_1"	1st uplink CCCH (RACH) of cell H
C_FACCHF_A_1	LOGICCH	"C_FACCHF_A_1"	FACCH associated with 1st TCH/F of cell A
C_FACCHF_A_2	LOGICCH	"C_FACCHF_A_2"	FACCH associated with 2nd TCH/F of cell A
C_FACCHF_A_3	LOGICCH	"C_FACCHF_A_3"	FACCH associated with 3rd TCH/F of cell A
C_FACCHF_B_1	LOGICCH	"C_FACCHF_B_1"	FACCH associated with 1st TCH/F of cell B
C_FACCHF_B_2	LOGICCH	"C_FACCHF_B_2"	FACCH associated with 2nd TCH/F of cell B
C_FACCHF_B_3	LOGICCH	"C_FACCHF_B_3"	FACCH associated with 3rd TCH/F of cell B
C_FACCHF_C_1	LOGICCH	"C_FACCHF_C_1"	FACCH associated with 1sd TCH/F of cell C
C_FACCHF_C_2	LOGICCH	"C_FACCHF_C_2"	FACCH associated with 2nd TCH/F of cell C
C_FACCHF_C_3	LOGICCH	"C_FACCHF_C_3"	FACCH associated with 3rd TCH/F of cell C
C_FACCHF_H_1	LOGICCH	"C_FACCHF_H_1"	FACCH associated with 1st TCH/F of cell H
C_FACCHH_A_1	LOGICCH	"C_FACCHH_A_1"	FACCH associated with 1st TCH/H of cell A
C_FACCHH_A_2	LOGICCH	"C_FACCHH_A_2"	FACCH associated with 2nd TCH/H of cell A
C_FACCHH_A_3	LOGICCH	"C_FACCHH_A_3"	FACCH associated with 3rd TCH/H of cell A
C_FACCHH_B_1	LOGICCH	"C_FACCHH_B_1"	FACCH associated with 1st TCH/H of cell B
C_FACCHH_B_2	LOGICCH	"C_FACCHH_B_2"	FACCH associated with 2nd TCH/H of cell B
C_FACCHH_B_3	LOGICCH	"C_FACCHH_B_3"	FACCH associated with 3rd TCH/H of cell B
C_FACCHH_C_1	LOGICCH	"C_FACCHH_C_1"	FACCH associated with 1st TCH/H of cell C
C_FACCHH_C_2	LOGICCH	"C_FACCHH_C_2"	FACCH associated with 2nd TCH/H of cell C
C_FACCHH_C_3	LOGICCH	"C_FACCHH_C_3"	FACCH associated with 3rd TCH/H of cell C
C_FACCHH0_A_1	LOGICCH	"C_FACCHH0_A_1"	FACCH associated with 1st TCH/H0 of cell A
C_FACCHH1_A_1	LOGICCH	"C_FACCHH1_A_1"	FACCH associated with 1st TCH/H1 of cell A
C_FACCHH0_A_2	LOGICCH	"C_FACCHH0_A_2"	FACCH associated with 2nd TCH/H0 of cell A
C_FACCHH1_A_2	LOGICCH	"C_FACCHH1_A_2"	FACCH associated with 2nd TCH/H1 of cell A
C_FACCHH0_A_3	LOGICCH	"C_FACCHH0_A_3"	FACCH associated with 3rd TCH/H0 of cell A
C_FACCHH1_A_3	LOGICCH	"C_FACCHH1_A_3"	FACCH associated with 3rd TCH/H1 of cell A

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_FACCHH0_B_1	LOGICCH	"C_FACCHH0_B_1"	FACCH associated with 1st TCH/H0 of cell B
C_FACCHH1_B_1	LOGICCH	"C_FACCHH1_B_1"	FACCH associated with 1st TCH/H1 of cell B
C_FACCHH0_B_2	LOGICCH	"C_FACCHH0_B_2"	FACCH associated with 2nd TCH/H0 of cell B
C_FACCHH1_B_2	LOGICCH	"C_FACCHH1_B_2"	FACCH associated with 2nd TCH/H1 of cell B
C_FACCHH0_B_3	LOGICCH	"C_FACCHH0_B_3"	FACCH associated with 3rd TCH/H0 of cell B
C_FACCHH1_B_3	LOGICCH	"C_FACCHH1_B_3"	FACCH associated with 3rd TCH/H1 of cell B
C_FACCHH0_C_1	LOGICCH	"C_FACCHH0_C_1"	FACCH associated with 1st TCH/H0 of cell C
C_FACCHH1_C_1	LOGICCH	"C_FACCHH1_C_1"	FACCH associated with 1st TCH/H1 of cell C
C_FACCHH0_C_2	LOGICCH	"C_FACCHH0_C_2"	FACCH associated with 2nd TCH/H0 of cell C
C_FACCHH1_C_2	LOGICCH	"C_FACCHH1_C_2"	FACCH associated with 2nd TCH/H1 of cell C
C_FACCHH0_C_3	LOGICCH	"C_FACCHH0_C_3"	FACCH associated with 3rd TCH/H0 of cell C
C_FACCHH1_C_3	LOGICCH	"C_FACCHH1_C_3"	FACCH associated with 3rd TCH/H1 of cell C
C_FACCHH0_D_1	LOGICCH	"C_FACCHH0_D_1"	FACCH associated with 1st TCH/H0 of cell D
C_FACCHH1_D_1	LOGICCH	"C_FACCHH1_D_1"	FACCH associated with 1st TCH/H1 of cell D
C_FACCHH0_D_2	LOGICCH	"C_FACCHH0_D_2"	FACCH associated with 2nd TCH/H0 of cell D
C_FACCHH1_D_2	LOGICCH	"C_FACCHH1_D_2"	FACCH associated with 2nd TCH/H1 of cell D
C_FACCHH0_D_3	LOGICCH	"C_FACCHH0_D_3"	FACCH associated with 3rd TCH/H0 of cell D
C_FACCHH1_D_3	LOGICCH	"C_FACCHH1_D_3"	FACCH associated with 3rd TCH/H1 of cell D
C_FACCHH0_E_1	LOGICCH	"C_FACCHH0_E_1"	FACCH associated with 1st TCH/H0 of cell E
C_FACCHH1_E_1	LOGICCH	"C_FACCHH1_E_1"	FACCH associated with 1st TCH/H1 of cell E
C_FACCHH0_E_2	LOGICCH	"C_FACCHH0_E_2"	FACCH associated with 2nd TCH/H0 of cell E
C_FACCHH1_E_2	LOGICCH	"C_FACCHH1_E_2"	FACCH associated with 2nd TCH/H1 of cell E
C_FACCHH0_E_3	LOGICCH	"C_FACCHH0_E_3"	FACCH associated with 3rd TCH/H0 of cell E
C_FACCHH1_E_3	LOGICCH	"C_FACCHH1_E_3"	FACCH associated with 3rd TCH/H1 of cell E
C_FACCHH0_F_1	LOGICCH	"C_FACCHH0_F_1"	FACCH associated with 1st TCH/H0 of cell F
C_FACCHH1_F_1	LOGICCH	"C_FACCHH1_F_1"	FACCH associated with 1st TCH/H1 of cell F

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_FACCHH0_F_2	LOGICCH	"C_FACCHH0_F_2"	FACCH associated with 2nd TCH/H0 of cell F
C_FACCHH1_F_2	LOGICCH	"C_FACCHH1_F_2"	FACCH associated with 2nd TCH/H1 of cell F
C_FACCHH0_F_3	LOGICCH	"C_FACCHH0_F_3"	FACCH associated with 3rd TCH/H0 of cell F
C_FACCHH1_F_3	LOGICCH	"C_FACCHH1_F_3"	FACCH associated with 3rd TCH/H1 of cell F
C_FACCHH0_G_1	LOGICCH	"C_FACCHH0_G_1"	FACCH associated with 1st TCH/H0 of cell G
C_FACCHH1_G_1	LOGICCH	"C_FACCHH1_G_1"	FACCH associated with 1st TCH/H1 of cell G
C_FACCHH0_G_2	LOGICCH	"C_FACCHH0_G_2"	FACCH associated with 2nd TCH/H0 of cell G
C_FACCHH1_G_2	LOGICCH	"C_FACCHH1_G_2"	FACCH associated with 2nd TCH/H1 of cell G
C_FACCHH0_G_3	LOGICCH	"C_FACCHH0_G_3"	FACCH associated with 3rd TCH/H0 of cell G
C_FACCHH1_G_3	LOGICCH	"C_FACCHH1_G_3"	FACCH associated with 3rd TCH/H1 of cell G
C_FACCHH0_H_1	LOGICCH	"C_FACCHH0_H_1"	FACCH associated with 1st TCH/H0 of cell H
C_FACCHH1_H_1	LOGICCH	"C_FACCHH1_H_1"	FACCH associated with 1st TCH/H1 of cell H
C_FACCHH0_H_2	LOGICCH	"C_FACCHH0_H_2"	FACCH associated with 2nd TCH/H0 of cell H
C_FACCHH1_H_2	LOGICCH	"C_FACCHH1_H_2"	FACCH associated with 2nd TCH/H1 of cell H
C_FACCHH0_H_3	LOGICCH	"C_FACCHH0_H_3"	FACCH associated with 3rd TCH/H0 of cell H
C_FACCHH1_H_3	LOGICCH	"C_FACCHH1_H_3"	FACCH associated with 3rd TCH/H1 of cell H
C_SACCH_A	LOGICCH	"C_SACCH_A"	all SACCHs of cell A
C_SACCH_B	LOGICCH	"C_SACCH_B"	all SACCHs of cell B
C_SACCH_C	LOGICCH	"C_SACCH_C"	all SACCHs of cell C
C_SACCH_D	LOGICCH	"C_SACCH_D"	all SACCHs of cell D
C_SACCH_E	LOGICCH	"C_SACCH_E"	all SACCHs of cell E
C_SACCH_F	LOGICCH	"C_SACCH_F"	all SACCHs of cell F
C_SACCH_G	LOGICCH	"C_SACCH_G"	all SACCHs of cell G
C_SACCH_H	LOGICCH	"C_SACCH_H"	all SACCHs of cell H
C_SACCHF_A_1	LOGICCH	"C_SACCHF_A_1"	SACCH associated with 1st TCH/F of cell A
C_SACCHF_A_2	LOGICCH	"C_SACCHF_A_2"	SACCH associated with 2nd TCH/F of cell A
C_SACCHF_B_1	LOGICCH	"C_SACCHF_B_1"	SACCH associated with 1st TCH/F of cell B
C_SACCHF_B_2	LOGICCH	"C_SACCHF_B_2"	SACCH associated with 2nd TCH/F of cell B
C_SACCHF_H_1	LOGICCH	"C_SACCHF_H_1"	SACCH associated with 1st TCH/F of cell H
C_SACCHH_A_1	LOGICCH	"C_SACCHH_A_1"	SACCH associated with 1st TCH/H of cell A

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHH_A_2	LOGICCH	"C_SACCHH_A_2"	SACCH associated with 2nd TCH/H of cell A
C_SACCHH_A_3	LOGICCH	"C_SACCHH_A_3"	SACCH associated with 3rd TCH/H of cell A
C_SACCHH_B_1	LOGICCH	"C_SACCHH_B_1"	SACCH associated with 1st TCH/H of cell B
C_SACCHH_B_2	LOGICCH	"C_SACCHH_B_2"	SACCH associated with 2nd TCH/H of cell B
C_SACCHH_B_3	LOGICCH	"C_SACCHH_B_3"	SACCH associated with 3rd TCH/H of cell B
C_SACCHH_C_1	LOGICCH	"C_SACCHH_C_1"	SACCH associated with 1st TCH/H of cell C
C_SACCHH_C_2	LOGICCH	"C_SACCHH_C_2"	SACCH associated with 2nd TCH/H of cell C
C_SACCHH_C_3	LOGICCH	"C_SACCHH_C_3"	SACCH associated with 3rd TCH/H of cell C
C_SACCHH0_A_1	LOGICCH	"C_SACCHH0_A_1"	SACCH associated with 1st TCH/H_0 of cell A
C_SACCHH1_A_1	LOGICCH	"C_SACCHH1_A_1"	SACCH associated with 1st TCH/H_1 of cell A
C_SACCHH0_A_2	LOGICCH	"C_SACCHH0_A_2"	SACCH associated with 2nd TCH/H_0 of cell A
C_SACCHH1_A_2	LOGICCH	"C_SACCHH1_A_2"	SACCH associated with 2nd TCH/H_1 of cell A
C_SACCHH0_A_3	LOGICCH	"C_SACCHH0_A_3"	SACCH associated with 3rd TCH/H_0 of cell A
C_SACCHH1_A_3	LOGICCH	"C_SACCHH1_A_3"	SACCH associated with 3rd TCH/H_1 of cell A
C_SACCHH0_B_1	LOGICCH	"C_SACCHH0_B_1"	SACCH associated with 1st TCH/H_0 of cell B
C_SACCHH1_B_1	LOGICCH	"C_SACCHH1_B_1"	SACCH associated with 1st TCH/H_1 of cell B
C_SACCHH0_B_2	LOGICCH	"C_SACCHH0_B_2"	SACCH associated with 2nd TCH/H_0 of cell B
C_SACCHH1_B_2	LOGICCH	"C_SACCHH1_B_2"	SACCH associated with 2nd TCH/H_1 of cell B
C_SACCHH0_B_3	LOGICCH	"C_SACCHH0_B_3"	SACCH associated with 3rd TCH/H_0 of cell B
C_SACCHH1_B_3	LOGICCH	"C_SACCHH1_B_3"	SACCH associated with 3rd TCH/H_1 of cell B
C_SACCHH0_C_1	LOGICCH	"C_SACCHH0_C_1"	SACCH associated with 1st TCH/H_0 of cell C
C_SACCHH1_C_1	LOGICCH	"C_SACCHH1_C_1"	SACCH associated with 1st TCH/H_1 of cell C
C_SACCHH0_C_2	LOGICCH	"C_SACCHH0_C_2"	SACCH associated with 2nd TCH/H_0 of cell C
C_SACCHH1_C_2	LOGICCH	"C_SACCHH1_C_2"	SACCH associated with 2nd TCH/H_1 of cell C
C_SACCHH0_C_3	LOGICCH	"C_SACCHH0_C_3"	SACCH associated with 3rd TCH/H_0 of cell C
C_SACCHH1_C_3	LOGICCH	"C_SACCHH1_C_3"	SACCH associated with 3rd TCH/H_1 of cell C

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHH0_D_1	LOGICCH	"C_SACCHH0_D_1"	SACCH associated with 1st TCH/H_0 of cell D
C_SACCHH1_D_1	LOGICCH	"C_SACCHH1_D_1"	SACCH associated with 1st TCH/H_1 of cell D
C_SACCHH0_D_2	LOGICCH	"C_SACCHH0_D_2"	SACCH associated with 2nd TCH/H_0 of cell D
C_SACCHH1_D_2	LOGICCH	"C_SACCHH1_D_2"	SACCH associated with 2nd TCH/H_1 of cell D
C_SACCHH0_D_3	LOGICCH	"C_SACCHH0_D_3"	SACCH associated with 3rd TCH/H_0 of cell D
C_SACCHH1_D_3	LOGICCH	"C_SACCHH1_D_3"	SACCH associated with 3rd TCH/H_1 of cell D
C_SACCHH0_E_1	LOGICCH	"C_SACCHH0_E_1"	SACCH associated with 1st TCH/H_0 of cell E
C_SACCHH1_E_1	LOGICCH	"C_SACCHH1_E_1"	SACCH associated with 1st TCH/H_1 of cell E
C_SACCHH0_E_2	LOGICCH	"C_SACCHH0_E_2"	SACCH associated with 2nd TCH/H_0 of cell E
C_SACCHH1_E_2	LOGICCH	"C_SACCHH1_E_2"	SACCH associated with 2nd TCH/H_1 of cell E
C_SACCHH0_E_3	LOGICCH	"C_SACCHH0_E_3"	SACCH associated with 3rd TCH/H_0 of cell E
C_SACCHH1_E_3	LOGICCH	"C_SACCHH1_E_3"	SACCH associated with 3rd TCH/H_1 of cell E
C_SACCHH0_F_1	LOGICCH	"C_SACCHH0_F_1"	SACCH associated with 1st TCH/H_0 of cell F
C_SACCHH1_F_1	LOGICCH	"C_SACCHH1_F_1"	SACCH associated with 1st TCH/H_1 of cell F
C_SACCHH0_F_2	LOGICCH	"C_SACCHH0_F_2"	SACCH associated with 2nd TCH/H_0 of cell F
C_SACCHH1_F_2	LOGICCH	"C_SACCHH1_F_2"	SACCH associated with 2nd TCH/H_1 of cell F
C_SACCHH0_F_3	LOGICCH	"C_SACCHH0_F_3"	SACCH associated with 3rd TCH/H_0 of cell F
C_SACCHH1_F_3	LOGICCH	"C_SACCHH1_F_3"	SACCH associated with 3rd TCH/H_1 of cell F
C_SACCHH0_G_1	LOGICCH	"C_SACCHH0_G_1"	SACCH associated with 1st TCH/H_0 of cell G
C_SACCHH1_G_1	LOGICCH	"C_SACCHH1_G_1"	SACCH associated with 1st TCH/H_1 of cell G
C_SACCHH0_G_2	LOGICCH	"C_SACCHH0_G_2"	SACCH associated with 2nd TCH/H_0 of cell G
C_SACCHH1_G_2	LOGICCH	"C_SACCHH1_G_2"	SACCH associated with 2nd TCH/H_1 of cell G
C_SACCHH0_G_3	LOGICCH	"C_SACCHH0_G_3"	SACCH associated with 3rd TCH/H_0 of cell G
C_SACCHH1_G_3	LOGICCH	"C_SACCHH1_G_3"	SACCH associated with 3rd TCH/H_1 of cell G
C_SACCHH0_H_1	LOGICCH	"C_SACCHH0_H_1"	SACCH associated with 1st TCH/H_0 of cell H
C_SACCHH1_H_1	LOGICCH	"C_SACCHH1_H_1"	SACCH associated with 1st TCH/H_1 of cell H

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHH0_H_2	LOGICCH	"C_SACCHH0_H_2"	SACCH associated with 2nd TCH/H_0 of cell H
C_SACCHH1_H_2	LOGICCH	"C_SACCHH1_H_2"	SACCH associated with 2nd TCH/H_1 of cell H
C_SACCHH0_H_3	LOGICCH	"C_SACCHH0_H_3"	SACCH associated with 3rd TCH/H_0 of cell H
C_SACCHH1_H_3	LOGICCH	"C_SACCHH1_H_3"	SACCH associated with 3rd TCH/H_1 of cell H
C_SACCHC4_A	LOGICCH	"C_SACCHC4_A"	SACCHC4 channel of cell A
C_SACCHC4_B	LOGICCH	"C_SACCHC4_B"	SACCHC4 channel of cell B
C_SACCHC4_C	LOGICCH	"C_SACCHC4_C"	SACCHC4 channel of cell C
C_SACCHC4_D	LOGICCH	"C_SACCHC4_D"	SACCHC4 channel of cell D
C_SACCHC4_E	LOGICCH	"C_SACCHC4_E"	SACCHC4 channel of cell E
C_SACCHC4_F	LOGICCH	"C_SACCHC4_F"	SACCHC4 channel of cell F
C_SACCHC4_G	LOGICCH	"C_SACCHC4_G"	SACCHC4 channel of cell G
C_SACCHC4_H	LOGICCH	"C_SACCHC4_H"	SACCHC4 channel of cell H
C_SACCHC40_A	LOGICCH	"C_SACCHC40_A"	SACCH/C4(0) associated with SDCCH/4(0) of cell A
C_SACCHC41_A	LOGICCH	"C_SACCHC41_A"	SACCH/C4(1) associated with SDCCH/4(1) of cell A
C_SACCHC42_A	LOGICCH	"C_SACCHC42_A"	SACCH/C4(2) associated with SDCCH/4(2) of cell A
C_SACCHC43_A	LOGICCH	"C_SACCCH43_A"	SACCH/C4(3) associated with SDCCH/4(3) of cell A
C_SACCHC40_B	LOGICCH	"C_SACCHC40_B"	SACCH/C4(0) associated with SDCCH/4(0) of cell B
C_SACCHC41_B	LOGICCH	"C_SACCHC41_B"	SACCH/C4(1) associated with SDCCH/4(1) of cell B
C_SACCHC42_B	LOGICCH	"C_SACCHC42_B"	SACCH/C4(2) associated with SDCCH/4(2) of cell B
C_SACCHC43_B	LOGICCH	"C_SACCHC43_B"	SACCH/C4(3) associated with SDCCH/4(3) of cell B
C_SACCHC40_C	LOGICCH	"C_SACCHC40_C"	SACCH/C4(0) associated with SDCCH/4(0) of cell C
C_SACCHC41_C	LOGICCH	"C_SACCHC41_C"	SACCH/C4(1) associated with SDCCH/4(1) of cell C
C_SACCHC42_C	LOGICCH	"C_SACCHC42_C"	SACCH/C4(2) associated with SDCCH/4(2) of cell C
C_SACCHC43_C	LOGICCH	"C_SACCHC43_C"	SACCH/C4(3) associated with SDCCH/4(3) of cell C
C_SACCHC40_D	LOGICCH	"C_SACCHC40_D"	SACCH/C4(0) associated with SDCCH/4(0) of cell D
C_SACCHC41_D	LOGICCH	"C_SACCHC41_D"	SACCH/C4(1) associated with SDCCH/4(1) of cell D
C_SACCHC42_D	LOGICCH	"C_SACCHC42_D"	SACCH/C4(2) associated with SDCCH/4(2) of cell D
C_SACCHC43_D	LOGICCH	"C_SACCCH43_D"	SACCH/C4(3) associated with SDCCH/4(3) of cell D
C_SACCHC40_E	LOGICCH	"C_SACCHC40_E"	SACCH/C4(0) associated with SDCCH/4(0) of cell E
C_SACCHC41_E	LOGICCH	"C_SACCHC41_E"	SACCH/C4(1) associated with SDCCH/4(1) of cell E

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC42_E	LOGICCH	"C_SACCHC42_E"	SACCH/C4(2) associated with SDCCH/4(2) of cell E
C_SACCHC43_E	LOGICCH	"C_SACCHC43_E"	SACCH/C4(3) associated with SDCCH/4(3) of cell E
C_SACCHC40_F	LOGICCH	"C_SACCHC40_F"	SACCH/C4(0) associated with SDCCH/4(0) of cell F
C_SACCHC41_F	LOGICCH	"C_SACCHC41_F"	SACCH/C4(1) associated with SDCCH/4(1) of cell F
C_SACCHC42_F	LOGICCH	"C_SACCHC42_F"	SACCH/C4(2) associated with SDCCH/4(2) of cell F
C_SACCHC43_F	LOGICCH	"C_SACCHC43_F"	SACCH/C4(3) associated with SDCCH/4(3) of cell F
C_SACCHC40_G	LOGICCH	"C_SACCHC40_G"	SACCH/C4(0) associated with SDCCH/4(0) of cell G
C_SACCHC41_G	LOGICCH	"C_SACCHC41_G"	SACCH/C4(1) associated with SDCCH/4(1) of cell G
C_SACCHC42_G	LOGICCH	"C_SACCHC42_G"	SACCH/C4(2) associated with SDCCH/4(2) of cell G
C_SACCHC43_G	LOGICCH	"C_SACCHC43_G"	SACCH/C4(3) associated with SDCCH/4(3) of cell G
C_SACCHC40_H	LOGICCH	"C_SACCHC40_C"	SACCH/C4(0) associated with SDCCH/4(0) of cell H
C_SACCHC41_H	LOGICCH	"C_SACCHC41_C"	SACCH/C4(1) associated with SDCCH/4(1) of cell H
C_SACCHC42_H	LOGICCH	"C_SACCHC42_C"	SACCH/C4(2) associated with SDCCH/4(2) of cell H
C_SACCHC43_H	LOGICCH	"C_SACCHC43_C"	SACCH/C4(3) associated with SDCCH/4(3) of cell H
C_SACCHC8_A_1	LOGICCH	"C_SACCHC8_A_1"	1st SACCH/8 channel of cell A
C_SACCHC8_A_2	LOGICCH	"C_SACCHC8_A_2"	2nd SACCH/8 channel of cell A
C_SACCHC8_A_3	LOGICCH	"C_SACCHC8_A_3"	3rd SACCH/8 channel of cell A
C_SACCHC8_B_1	LOGICCH	"C_SACCHC8_B_1"	1st SACCH/8 channel of cell B
C_SACCHC8_B_2	LOGICCH	"C_SACCHC8_B_2"	2nd SACCH/8 channel of cell B
C_SACCHC8_B_3	LOGICCH	"C_SACCHC8_B_3"	3rd SACCH/8 channel of cell B
C_SACCHC8_C_1	LOGICCH	"C_SACCHC8_C_1"	1st SACCH/8 channel of cell C
C_SACCHC8_C_2	LOGICCH	"C_SACCHC8_C_2"	2nd SACCH/8 channel of cell C
C_SACCHC8_C_3	LOGICCH	"C_SACCHC8_C_3"	3rd SACCH/8 channel of cell C
C_SACCHC80_A_1	LOGICCH	"C_SACCHC80_A_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell A
C_SACCHC81_A_1	LOGICCH	"C_SACCHC81_A_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell A

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC82_A_1	LOGICCH	"C_SACCHC82_A_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell A
C_SACCHC83_A_1	LOGICCH	"C_SACCHC83_A_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell A
C_SACCHC84_A_1	LOGICCH	"C_SACCHC84_A_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell A
C_SACCHC85_A_1	LOGICCH	"C_SACCHC85_A_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell A
C_SACCHC86_A_1	LOGICCH	"C_SACCHC86_A_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell A
C_SACCHC87_A_1	LOGICCH	"C_SACCHC87_A_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell A
C_SACCHC80_A_2	LOGICCH	"C_SACCHC80_A_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell A
C_SACCHC81_A_2	LOGICCH	"C_SACCHC81_A_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell A
C_SACCHC82_A_2	LOGICCH	"C_SACCHC82_A_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell A
C_SACCHC83_A_2	LOGICCH	"C_SACCHC83_A_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell A
C_SACCHC84_A_2	LOGICCH	"C_SACCHC84_A_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell A
C_SACCHC85_A_2	LOGICCH	"C_SACCHC85_A_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell A
C_SACCHC86_A_2	LOGICCH	"C_SACCHC86_A_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell A
C_SACCHC87_A_2	LOGICCH	"C_SACCHC87_A_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell A
C_SACCHC80_A_3	LOGICCH	"C_SACCHC80_A_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell A
C_SACCHC81_A_3	LOGICCH	"C_SACCHC81_A_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell A
C_SACCHC82_A_3	LOGICCH	"C_SACCHC82_A_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell A
C_SACCHC83_A_3	LOGICCH	"C_SACCHC83_A_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell A

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC84_A_3	LOGICCH	"C_SACCHC84_A_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell A
C_SACCHC85_A_3	LOGICCH	"C_SACCHC85_A_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell A
C_SACCHC86_A_3	LOGICCH	"C_SACCHC86_A_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell A
C_SACCHC87_A_3	LOGICCH	"C_SACCHC87_A_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell A
C_SACCHC80_B_1	LOGICCH	"C_SACCHC80_B_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell B
C_SACCHC81_B_1	LOGICCH	"C_SACCHC81_B_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell B
C_SACCHC82_B_1	LOGICCH	"C_SACCHC82_B_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell B
C_SACCHC83_B_1	LOGICCH	"C_SACCHC83_B_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell B
C_SACCHC84_B_1	LOGICCH	"C_SACCHC84_B_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell B
C_SACCHC85_B_1	LOGICCH	"C_SACCHC85_B_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell B
C_SACCHC86_B_1	LOGICCH	"C_SACCHC86_B_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell B
C_SACCHC87_B_1	LOGICCH	"C_SACCHC87_B_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell B
C_SACCHC80_B_2	LOGICCH	"C_SACCHC80_B_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell B
C_SACCHC81_B_2	LOGICCH	"C_SACCHC81_B_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell B
C_SACCHC82_B_2	LOGICCH	"C_SACCHC82_B_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell B
C_SACCHC83_B_2	LOGICCH	"C_SACCHC83_B_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell B
C_SACCHC84_B_2	LOGICCH	"C_SACCHC84_B_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell B
C_SACCHC85_B_2	LOGICCH	"C_SACCHC85_B_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell B

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC86_B_2	LOGICCH	"C_SACCHC86_B_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell B
C_SACCHC87_B_2	LOGICCH	"C_SACCHC87_B_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell B
C_SACCHC80_B_3	LOGICCH	"C_SACCHC80_B_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell B
C_SACCHC81_B_3	LOGICCH	"C_SACCHC81_B_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell B
C_SACCHC82_B_3	LOGICCH	"C_SACCHC82_B_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell B
C_SACCHC83_B_3	LOGICCH	"C_SACCHC83_B_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell B
C_SACCHC84_B_3	LOGICCH	"C_SACCHC84_B_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell B
C_SACCHC85_B_3	LOGICCH	"C_SACCHC85_B_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell B
C_SACCHC86_B_3	LOGICCH	"C_SACCHC86_B_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell B
C_SACCHC87_B_3	LOGICCH	"C_SACCHC87_B_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell B
C_SACCHC80_C_1	LOGICCH	"C_SACCHC80_C_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell C
C_SACCHC81_C_1	LOGICCH	"C_SACCHC81_C_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell C
C_SACCHC82_C_1	LOGICCH	"C_SACCHC82_C_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell C
C_SACCHC83_C_1	LOGICCH	"C_SACCHC83_C_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell C
C_SACCHC84_C_1	LOGICCH	"C_SACCHC84_C_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell C
C_SACCHC85_C_1	LOGICCH	"C_SACCHC85_C_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell C
C_SACCHC86_C_1	LOGICCH	"C_SACCHC86_C_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell C
C_SACCHC87_C_1	LOGICCH	"C_SACCHC87_C_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell C

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC80_C_2	LOGICCH	"C_SACCHC80_C_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell C
C_SACCHC81_C_2	LOGICCH	"C_SACCHC81_C_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell C
C_SACCHC82_C_2	LOGICCH	"C_SACCHC82_C_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell C
C_SACCHC83_C_2	LOGICCH	"C_SACCHC83_C_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell C
C_SACCHC84_C_2	LOGICCH	"C_SACCHC84_C_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell C
C_SACCHC85_C_2	LOGICCH	"C_SACCHC85_C_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell C
C_SACCHC86_C_2	LOGICCH	"C_SACCHC86_C_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell C
C_SACCHC87_C_2	LOGICCH	"C_SACCHC87_C_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell C
C_SACCHC80_C_3	LOGICCH	"C_SACCHC80_C_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell C
C_SACCHC81_C_3	LOGICCH	"C_SACCHC81_C_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell C
C_SACCHC82_C_3	LOGICCH	"C_SACCHC82_C_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell C
C_SACCHC83_C_3	LOGICCH	"C_SACCHC83_C_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell C
C_SACCHC84_C_3	LOGICCH	"C_SACCHC84_C_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell C
C_SACCHC85_C_3	LOGICCH	"C_SACCHC85_C_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell C
C_SACCHC86_C_3	LOGICCH	"C_SACCHC86_C_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell C
C_SACCHC87_C_3	LOGICCH	"C_SACCHC87_C_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell C
C_SACCHC80_D_1	LOGICCH	"C_SACCHC80_D_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell D
C_SACCHC81_D_1	LOGICCH	"C_SACCHC81_D_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell D

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC82_D_1	LOGICCH	"C_SACCHC82_D_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell D
C_SACCHC83_D_1	LOGICCH	"C_SACCHC83_D_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell D
C_SACCHC84_D_1	LOGICCH	"C_SACCHC84_D_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell D
C_SACCHC85_D_1	LOGICCH	"C_SACCHC85_D_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell D
C_SACCHC86_D_1	LOGICCH	"C_SACCHC86_D_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell D
C_SACCHC87_D_1	LOGICCH	"C_SACCHC87_D_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell D
C_SACCHC80_D_2	LOGICCH	"C_SACCHC80_D_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell D
C_SACCHC81_D_2	LOGICCH	"C_SACCHC81_D_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell D
C_SACCHC82_D_2	LOGICCH	"C_SACCHC82_D_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell D
C_SACCHC83_D_2	LOGICCH	"C_SACCHC83_D_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell D
C_SACCHC84_D_2	LOGICCH	"C_SACCHC84_D_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell D
C_SACCHC85_D_2	LOGICCH	"C_SACCHC85_D_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell D
C_SACCHC86_D_2	LOGICCH	"C_SACCHC86_D_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell D
C_SACCHC87_D_2	LOGICCH	"C_SACCHC87_D_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell D
C_SACCHC80_D_3	LOGICCH	"C_SACCHC80_D_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell D
C_SACCHC81_D_3	LOGICCH	"C_SACCHC81_D_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell D
C_SACCHC82_D_3	LOGICCH	"C_SACCHC82_D_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell D
C_SACCHC83_D_3	LOGICCH	"C_SACCHC83_D_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell D

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC84_D_3	LOGICCH	"C_SACCHC84_D_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell D
C_SACCHC85_D_3	LOGICCH	"C_SACCHC85_D_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell D
C_SACCHC86_D_3	LOGICCH	"C_SACCHC86_D_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell D
C_SACCHC87_D_3	LOGICCH	"C_SACCHC87_D_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell D
C_SACCHC80_E_1	LOGICCH	"C_SACCHC80_E_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell E
C_SACCHC81_E_1	LOGICCH	"C_SACCHC81_E_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell E
C_SACCHC82_E_1	LOGICCH	"C_SACCHC82_E_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell E
C_SACCHC83_E_1	LOGICCH	"C_SACCHC83_E_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell E
C_SACCHC84_E_1	LOGICCH	"C_SACCHC84_E_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell E
C_SACCHC85_E_1	LOGICCH	"C_SACCHC85_E_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell E
C_SACCHC86_E_1	LOGICCH	"C_SACCHC86_E_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell E
C_SACCHC87_E_1	LOGICCH	"C_SACCHC87_E_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell E
C_SACCHC80_E_2	LOGICCH	"C_SACCHC80_E_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell E
C_SACCHC81_E_2	LOGICCH	"C_SACCHC81_E_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell E
C_SACCHC82_E_2	LOGICCH	"C_SACCHC82_E_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell E
C_SACCHC83_E_2	LOGICCH	"C_SACCHC83_E_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell E
C_SACCHC84_E_2	LOGICCH	"C_SACCHC84_E_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell E
C_SACCHC85_E_2	LOGICCH	"C_SACCHC85_E_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell E

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC86_E_2	LOGICCH	"C_SACCHC86_E_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell E
C_SACCHC87_E_2	LOGICCH	"C_SACCHC87_E_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell E
C_SACCHC80_E_3	LOGICCH	"C_SACCHC80_E_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell E
C_SACCHC81_E_3	LOGICCH	"C_SACCHC81_E_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell E
C_SACCHC82_E_3	LOGICCH	"C_SACCHC82_E_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell E
C_SACCHC83_E_3	LOGICCH	"C_SACCHC83_E_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell E
C_SACCHC84_E_3	LOGICCH	"C_SACCHC84_E_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell E
C_SACCHC85_E_3	LOGICCH	"C_SACCHC85_E_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell E
C_SACCHC86_E_3	LOGICCH	"C_SACCHC86_E_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell E
C_SACCHC87_E_3	LOGICCH	"C_SACCHC87_E_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell E
C_SACCHC80_F_1	LOGICCH	"C_SACCHC80_F_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell F
C_SACCHC81_F_1	LOGICCH	"C_SACCHC81_F_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell F
C_SACCHC82_F_1	LOGICCH	"C_SACCHC82_F_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell F
C_SACCHC83_F_1	LOGICCH	"C_SACCHC83_F_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell F
C_SACCHC84_F_1	LOGICCH	"C_SACCHC84_F_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell F
C_SACCHC85_F_1	LOGICCH	"C_SACCHC85_F_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell F
C_SACCHC86_F_1	LOGICCH	"C_SACCHC86_F_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell F
C_SACCHC87_F_1	LOGICCH	"C_SACCHC87_F_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell F

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC80_F_2	LOGICCH	"C_SACCHC80_F_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell F
C_SACCHC81_F_2	LOGICCH	"C_SACCHC81_F_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell F
C_SACCHC82_F_2	LOGICCH	"C_SACCHC82_F_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell F
C_SACCHC83_F_2	LOGICCH	"C_SACCHC83_F_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell F
C_SACCHC84_F_2	LOGICCH	"C_SACCHC84_F_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell F
C_SACCHC85_F_2	LOGICCH	"C_SACCHC85_F_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell F
C_SACCHC86_F_2	LOGICCH	"C_SACCHC86_F_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell F
C_SACCHC87_F_2	LOGICCH	"C_SACCHC87_F_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell F
C_SACCHC80_F_3	LOGICCH	"C_SACCHC80_F_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell F
C_SACCHC81_F_3	LOGICCH	"C_SACCHC81_F_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell F
C_SACCHC82_F_3	LOGICCH	"C_SACCHC82_F_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell F
C_SACCHC83_F_3	LOGICCH	"C_SACCHC83_F_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell F
C_SACCHC84_F_3	LOGICCH	"C_SACCHC84_F_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell F
C_SACCHC85_F_3	LOGICCH	"C_SACCHC85_F_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell F
C_SACCHC86_F_3	LOGICCH	"C_SACCHC86_F_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell F
C_SACCHC87_F_3	LOGICCH	"C_SACCHC87_F_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell F
C_SACCHC80_G_1	LOGICCH	"C_SACCHC80_G_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell G
C_SACCHC81_G_1	LOGICCH	"C_SACCHC81_G_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell G

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC82_G_1	LOGICCH	"C_SACCHC82_G_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell G
C_SACCHC83_G_1	LOGICCH	"C_SACCHC83_G_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell G
C_SACCHC84_G_1	LOGICCH	"C_SACCHC84_G_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell G
C_SACCHC85_G_1	LOGICCH	"C_SACCHC85_G_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell G
C_SACCHC86_G_1	LOGICCH	"C_SACCHC86_G_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell G
C_SACCHC87_G_1	LOGICCH	"C_SACCHC87_G_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell G
C_SACCHC80_G_2	LOGICCH	"C_SACCHC80_G_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell G
C_SACCHC81_G_2	LOGICCH	"C_SACCHC81_G_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell G
C_SACCHC82_G_2	LOGICCH	"C_SACCHC82_G_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell G
C_SACCHC83_G_2	LOGICCH	"C_SACCHC83_G_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell G
C_SACCHC84_G_2	LOGICCH	"C_SACCHC84_G_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell G
C_SACCHC85_G_2	LOGICCH	"C_SACCHC85_G_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell G
C_SACCHC86_G_2	LOGICCH	"C_SACCHC86_G_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell G
C_SACCHC87_G_2	LOGICCH	"C_SACCHC87_G_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell G
C_SACCHC80_G_3	LOGICCH	"C_SACCHC80_G_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell G
C_SACCHC81_G_3	LOGICCH	"C_SACCHC81_G_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell G
C_SACCHC82_G_3	LOGICCH	"C_SACCHC82_G_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell G
C_SACCHC83_G_3	LOGICCH	"C_SACCHC83_G_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell G

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC84_G_3	LOGICCH	"C_SACCHC84_G_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell G
C_SACCHC85_G_3	LOGICCH	"C_SACCHC85_G_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell G
C_SACCHC86_G_3	LOGICCH	"C_SACCHC86_G_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell G
C_SACCHC87_G_3	LOGICCH	"C_SACCHC87_G_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell G
C_SACCHC80_H_1	LOGICCH	"C_SACCHC80_H_1"	SACCH/C8(0) associated with 1st SDCCH/8(0) of cell H
C_SACCHC81_H_1	LOGICCH	"C_SACCHC81_H_1"	SACCH/C8(1) associated with 1st SDCCH/8(1) of cell H
C_SACCHC82_H_1	LOGICCH	"C_SACCHC82_H_1"	SACCH/C8(2) associated with 1st SDCCH/8(2) of cell H
C_SACCHC83_H_1	LOGICCH	"C_SACCHC83_H_1"	SACCH/C8(3) associated with 1st SDCCH/8(3) of cell H
C_SACCHC84_H_1	LOGICCH	"C_SACCHC84_H_1"	SACCH/C8(4) associated with 1st SDCCH/8(4) of cell H
C_SACCHC85_H_1	LOGICCH	"C_SACCHC85_H_1"	SACCH/C8(5) associated with 1st SDCCH/8(5) of cell H
C_SACCHC86_H_1	LOGICCH	"C_SACCHC86_H_1"	SACCH/C8(6) associated with 1st SDCCH/8(6) of cell H
C_SACCHC87_H_1	LOGICCH	"C_SACCHC87_H_1"	SACCH/C8(7) associated with 1st SDCCH/8(7) of cell H
C_SACCHC80_H_2	LOGICCH	"C_SACCHC80_H_2"	SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell H
C_SACCHC81_H_2	LOGICCH	"C_SACCHC81_H_2"	SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell H
C_SACCHC82_H_2	LOGICCH	"C_SACCHC82_H_2"	SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell H
C_SACCHC83_H_2	LOGICCH	"C_SACCHC83_H_2"	SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell H
C_SACCHC84_H_2	LOGICCH	"C_SACCHC84_H_2"	SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell H
C_SACCHC85_H_2	LOGICCH	"C_SACCHC85_H_2"	SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell H

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SACCHC86_H_2	LOGICCH	"C_SACCHC86_H_2"	SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell H
C_SACCHC87_H_2	LOGICCH	"C_SACCHC87_H_2"	SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell H
C_SACCHC80_H_3	LOGICCH	"C_SACCHC80_H_3"	SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell H
C_SACCHC81_H_3	LOGICCH	"C_SACCHC81_H_3"	SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell H
C_SACCHC82_H_3	LOGICCH	"C_SACCHC82_H_3"	SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell H
C_SACCHC83_H_3	LOGICCH	"C_SACCHC83_H_3"	SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell H
C_SACCHC84_H_3	LOGICCH	"C_SACCHC84_H_3"	SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell H
C_SACCHC85_H_3	LOGICCH	"C_SACCHC85_H_3"	SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell H
C_SACCHC86_H_3	LOGICCH	"C_SACCHC86_H_3"	SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell H
C_SACCHC87_H_3	LOGICCH	"C_SACCHC87_H_3"	SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell H
C_SDCCH4_A	LOGICCH	"C_SDCCH4_A"	SDCCH/4 channel of cell A
C_SDCCH4_B	LOGICCH	"C_SDCCH4_B"	SDCCH/4 channel of cell B
C_SDCCH4_C	LOGICCH	"C_SDCCH4_C"	SDCCH/4 channel of cell C
C_SDCCH4_D	LOGICCH	"C_SDCCH4_D"	SDCCH/4 channel of cell D
C_SDCCH4_E	LOGICCH	"C_SDCCH4_E"	SDCCH/4 channel of cell E
C_SDCCH4_F	LOGICCH	"C_SDCCH4_F"	SDCCH/4 channel of cell F
C_SDCCH4_G	LOGICCH	"C_SDCCH4_G"	SDCCH/4 channel of cell G
C_SDCCH4_H	LOGICCH	"C_SDCCH4_H"	SDCCH/4 channel of cell H
C_SDCCH40_A	LOGICCH	"C_SDCCH40_A"	SDCCH/4(0) of cell A
C_SDCCH41_A	LOGICCH	"C_SDCCH41_A"	SDCCH/4(1) of cell A
C_SDCCH42_A	LOGICCH	"C_SDCCH42_A"	SDCCH/4(2) of cell A
C_SDCCH43_A	LOGICCH	"C_SDCCH43_A"	SDCCH/4(3) of cell A
C_SDCCH40_B	LOGICCH	"C_SDCCH40_B"	SDCCH/4(0) of cell B
C_SDCCH41_B	LOGICCH	"C_SDCCH41_B"	SDCCH/4(1) of cell B
C_SDCCH42_B	LOGICCH	"C_SDCCH42_B"	SDCCH/4(2) of cell B
C_SDCCH43_B	LOGICCH	"C_SDCCH43_B"	SDCCH/4(3) of cell B
C_SDCCH40_C	LOGICCH	"C_SDCCH40_C"	SDCCH/4(0) of cell C
C_SDCCH41_C	LOGICCH	"C_SDCCH41_C"	SDCCH/4(1) of cell C
C_SDCCH42_C	LOGICCH	"C_SDCCH42_C"	SDCCH/4(2) of cell C
C_SDCCH43_C	LOGICCH	"C_SDCCH43_C"	SDCCH/4(3) of cell C
C_SDCCH40_D	LOGICCH	"C_SDCCH40_D"	SDCCH/4(0) of cell D
C_SDCCH41_D	LOGICCH	"C_SDCCH41_D"	SDCCH/4(1) of cell D

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SDCCH42_D	LOGICCH	"C_SDCCH42_D"	SDCCH/4(2) of cell D
C_SDCCH43_D	LOGICCH	"C_SDCCH43_D"	SDCCH/4(3) of cell D
C_SDCCH40_E	LOGICCH	"C_SDCCH40_E"	SDCCH/4(0) of cell E
C_SDCCH41_E	LOGICCH	"C_SDCCH41_E"	SDCCH/4(1) of cell E
C_SDCCH42_E	LOGICCH	"C_SDCCH42_E"	SDCCH/4(2) of cell E
C_SDCCH43_E	LOGICCH	"C_SDCCH43_E"	SDCCH/4(3) of cell E
C_SDCCH40_F	LOGICCH	"C_SDCCH40_F"	SDCCH/4(0) of cell F
C_SDCCH41_F	LOGICCH	"C_SDCCH41_F"	SDCCH/4(1) of cell F
C_SDCCH42_F	LOGICCH	"C_SDCCH42_F"	SDCCH/4(2) of cell F
C_SDCCH43_F	LOGICCH	"C_SDCCH43_F"	SDCCH/4(3) of cell F
C_SDCCH40_G	LOGICCH	"C_SDCCH40_G"	SDCCH/4(0) of cell G
C_SDCCH41_G	LOGICCH	"C_SDCCH41_G"	SDCCH/4(1) of cell G
C_SDCCH42_G	LOGICCH	"C_SDCCH42_G"	SDCCH/4(2) of cell G
C_SDCCH43_G	LOGICCH	"C_SDCCH43_G"	SDCCH/4(3) of cell G
C_SDCCH40_H	LOGICCH	"C_SDCCH40_H"	SDCCH/4(0) of cell H
C_SDCCH41_H	LOGICCH	"C_SDCCH41_H"	SDCCH/4(1) of cell H
C_SDCCH42_H	LOGICCH	"C_SDCCH42_H"	SDCCH/4(2) of cell H
C_SDCCH43_H	LOGICCH	"C_SDCCH43_H"	SDCCH/4(3) of cell H
C_SDCCH8_A_1	LOGICCH	"C_SDCCH8_A_1"	1st SDCCH/8 channel of cell A
C_SDCCH8_A_2	LOGICCH	"C_SDCCH8_A_2"	2nd SDCCH/8 channel of cell A
C_SDCCH8_A_3	LOGICCH	"C_SDCCH8_A_3"	3rd SDCCH/8 channel of cell A
C_SDCCH8_B_1	LOGICCH	"C_SDCCH8_B_1"	1st SDCCH/8 channel of cell B
C_SDCCH8_B_2	LOGICCH	"C_SDCCH8_B_2"	2nd SDCCH/8 channel of cell B
C_SDCCH80_A_1	LOGICCH	"C_SDCCH80_A_1"	1st SDCCH/8(0) of cell A
C_SDCCH81_A_1	LOGICCH	"C_SDCCH81_A_1"	1st SDCCH/8(1) of cell A
C_SDCCH82_A_1	LOGICCH	"C_SDCCH82_A_1"	1st SDCCH/8(2) of cell A
C_SDCCH83_A_1	LOGICCH	"C_SDCCH83_A_1"	1st SDCCH/8(3) of cell A
C_SDCCH84_A_1	LOGICCH	"C_SDCCH84_A_1"	1st SDCCH/8(4) of cell A
C_SDCCH85_A_1	LOGICCH	"C_SDCCH85_A_1"	1st SDCCH/8(5) of cell A
C_SDCCH86_A_1	LOGICCH	"C_SDCCH86_A_1"	1st SDCCH/8(6) of cell A
C_SDCCH87_A_1	LOGICCH	"C_SDCCH87_A_1"	1st SDCCH/8(7) of cell A
C_SDCCH80_A_2	LOGICCH	"C_SDCCH80_A_2"	2nd SDCCH/8(0) of cell A
C_SDCCH81_A_2	LOGICCH	"C_SDCCH81_A_2"	2nd SDCCH/8(1) of cell A
C_SDCCH82_A_2	LOGICCH	"C_SDCCH82_A_2"	2nd SDCCH/8(2) of cell A
C_SDCCH83_A_2	LOGICCH	"C_SDCCH83_A_2"	2nd SDCCH/8(3) of cell A
C_SDCCH84_A_2	LOGICCH	"C_SDCCH84_A_2"	2nd SDCCH/8(4) of cell A
C_SDCCH85_A_2	LOGICCH	"C_SDCCH85_A_2"	2nd SDCCH/8(5) of cell A
C_SDCCH86_A_2	LOGICCH	"C_SDCCH86_A_2"	2nd SDCCH/8(6) of cell A
C_SDCCH87_A_2	LOGICCH	"C_SDCCH87_A_2"	2nd SDCCH/8(7) of cell A
C_SDCCH80_A_3	LOGICCH	"C_SDCCH80_A_3"	3rd SDCCH/8(0) of cell A
C_SDCCH81_A_3	LOGICCH	"C_SDCCH81_A_3"	3rd SDCCH/8(1) of cell A
C_SDCCH82_A_3	LOGICCH	"C_SDCCH82_A_3"	3rd SDCCH/8(2) of cell A
C_SDCCH83_A_3	LOGICCH	"C_SDCCH83_A_3"	3rd SDCCH/8(3) of cell A

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SDCCH84_A_3	LOGICCH	"C_SDCCH84_A_3"	3rd SDCCH/8(4) of cell A
C_SDCCH85_A_3	LOGICCH	"C_SDCCH85_A_3"	3rd SDCCH/8(5) of cell A
C_SDCCH86_A_3	LOGICCH	"C_SDCCH86_A_3"	3rd SDCCH/8(6) of cell A
C_SDCCH87_A_3	LOGICCH	"C_SDCCH87_A_3"	3rd SDCCH/8(7) of cell A
C_SDCCH80_B_1	LOGICCH	"C_SDCCH80_B_1"	1st SDCCH/8(0) of cell B
C_SDCCH81_B_1	LOGICCH	"C_SDCCH81_B_1"	1st SDCCH/8(1) of cell B
C_SDCCH82_B_1	LOGICCH	"C_SDCCH82_B_1"	1st SDCCH/8(2) of cell B
C_SDCCH83_B_1	LOGICCH	"C_SDCCH83_B_1"	1st SDCCH/8(3) of cell B
C_SDCCH84_B_1	LOGICCH	"C_SDCCH84_B_1"	1st SDCCH/8(4) of cell B
C_SDCCH85_B_1	LOGICCH	"C_SDCCH85_B_1"	1st SDCCH/8(5) of cell B
C_SDCCH86_B_1	LOGICCH	"C_SDCCH86_B_1"	1st SDCCH/8(6) of cell B
C_SDCCH87_B_1	LOGICCH	"C_SDCCH87_B_1"	1st SDCCH/8(7) of cell B
C_SDCCH80_B_2	LOGICCH	"C_SDCCH80_B_2"	2nd SDCCH/8(0) of cell B
C_SDCCH81_B_2	LOGICCH	"C_SDCCH81_B_2"	2nd SDCCH/8(1) of cell B
C_SDCCH82_B_2	LOGICCH	"C_SDCCH82_B_2"	2nd SDCCH/8(2) of cell B
C_SDCCH83_B_2	LOGICCH	"C_SDCCH83_B_2"	2nd SDCCH/8(3) of cell B
C_SDCCH84_B_2	LOGICCH	"C_SDCCH84_B_2"	2nd SDCCH/8(4) of cell B
C_SDCCH85_B_2	LOGICCH	"C_SDCCH85_B_2"	2nd SDCCH/8(5) of cell B
C_SDCCH86_B_2	LOGICCH	"C_SDCCH86_B_2"	2nd SDCCH/8(6) of cell B
C_SDCCH87_B_2	LOGICCH	"C_SDCCH87_B_2"	2nd SDCCH/8(7) of cell B
C_SDCCH80_B_3	LOGICCH	"C_SDCCH80_B_3"	3rd SDCCH/8(0) of cell B
C_SDCCH81_B_3	LOGICCH	"C_SDCCH81_B_3"	3rd SDCCH/8(1) of cell B
C_SDCCH82_B_3	LOGICCH	"C_SDCCH82_B_3"	3rd SDCCH/8(2) of cell B
C_SDCCH83_B_3	LOGICCH	"C_SDCCH83_B_3"	3rd SDCCH/8(3) of cell B
C_SDCCH84_B_3	LOGICCH	"C_SDCCH84_B_3"	3rd SDCCH/8(4) of cell B
C_SDCCH85_B_3	LOGICCH	"C_SDCCH85_B_3"	3rd SDCCH/8(5) of cell B
C_SDCCH86_B_3	LOGICCH	"C_SDCCH86_B_3"	3rd SDCCH/8(6) of cell B
C_SDCCH87_B_3	LOGICCH	"C_SDCCH87_B_3"	3rd SDCCH/8(7) of cell B
C_SDCCH80_C_1	LOGICCH	"C_SDCCH80_C_1"	1st SDCCH/8(0) of cell C
C_SDCCH81_C_1	LOGICCH	"C_SDCCH81_C_1"	1st SDCCH/8(1) of cell C
C_SDCCH82_C_1	LOGICCH	"C_SDCCH82_C_1"	1st SDCCH/8(2) of cell C
C_SDCCH83_C_1	LOGICCH	"C_SDCCH83_C_1"	1st SDCCH/8(3) of cell C
C_SDCCH84_C_1	LOGICCH	"C_SDCCH84_C_1"	1st SDCCH/8(4) of cell C
C_SDCCH85_C_1	LOGICCH	"C_SDCCH85_C_1"	1st SDCCH/8(5) of cell C
C_SDCCH86_C_1	LOGICCH	"C_SDCCH86_C_1"	1st SDCCH/8(6) of cell C
C_SDCCH87_C_1	LOGICCH	"C_SDCCH87_C_1"	1st SDCCH/8(7) of cell C
C_SDCCH80_C_2	LOGICCH	"C_SDCCH80_C_2"	2nd SDCCH/8(0) of cell C
C_SDCCH81_C_2	LOGICCH	"C_SDCCH81_C_2"	2nd SDCCH/8(1) of cell C
C_SDCCH82_C_2	LOGICCH	"C_SDCCH82_C_2"	2nd SDCCH/8(2) of cell C
C_SDCCH83_C_2	LOGICCH	"C_SDCCH83_C_2"	2nd SDCCH/8(3) of cell C
C_SDCCH84_C_2	LOGICCH	"C_SDCCH84_C_2"	2nd SDCCH/8(4) of cell C
C_SDCCH85_C_2	LOGICCH	"C_SDCCH85_C_2"	2nd SDCCH/8(5) of cell C
C_SDCCH86_C_2	LOGICCH	"C_SDCCH86_C_2"	2nd SDCCH/8(6) of cell C
C_SDCCH87_C_2	LOGICCH	"C_SDCCH87_C_2"	2nd SDCCH/8(7) of cell C
C_SDCCH80_C_3	LOGICCH	"C_SDCCH80_C_3"	3rd SDCCH/8(0) of cell C
C_SDCCH81_C_3	LOGICCH	"C_SDCCH81_C_3"	3rd SDCCH/8(1) of cell C
C_SDCCH82_C_3	LOGICCH	"C_SDCCH82_C_3"	3rd SDCCH/8(2) of cell C

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SDCCH83_C_3	LOGICCH	"C_SDCCH83_C_3"	3rd SDCCH/8(3) of cell C
C_SDCCH84_C_3	LOGICCH	"C_SDCCH84_C_3"	3rd SDCCH/8(4) of cell C
C_SDCCH85_C_3	LOGICCH	"C_SDCCH85_C_3"	3rd SDCCH/8(5) of cell C
C_SDCCH86_C_3	LOGICCH	"C_SDCCH86_C_3"	3rd SDCCH/8(6) of cell C
C_SDCCH87_C_3	LOGICCH	"C_SDCCH87_C_3"	3rd SDCCH/8(7) of cell C
C_SDCCH80_D_1	LOGICCH	"C_SDCCH80_D_1"	1st SDCCH/8(0) of cell D
C_SDCCH81_D_1	LOGICCH	"C_SDCCH81_D_1"	1st SDCCH/8(1) of cell D
C_SDCCH82_D_1	LOGICCH	"C_SDCCH82_D_1"	1st SDCCH/8(2) of cell D
C_SDCCH83_D_1	LOGICCH	"C_SDCCH83_D_1"	1st SDCCH/8(3) of cell D
C_SDCCH84_D_1	LOGICCH	"C_SDCCH84_D_1"	1st SDCCH/8(4) of cell D
C_SDCCH85_D_1	LOGICCH	"C_SDCCH85_D_1"	1st SDCCH/8(5) of cell D
C_SDCCH86_D_1	LOGICCH	"C_SDCCH86_D_1"	1st SDCCH/8(6) of cell D
C_SDCCH87_D_1	LOGICCH	"C_SDCCH87_D_1"	1st SDCCH/8(7) of cell D
C_SDCCH80_D_2	LOGICCH	"C_SDCCH80_D_2"	2nd SDCCH/8(0) of cell D
C_SDCCH81_D_2	LOGICCH	"C_SDCCH81_D_2"	2nd SDCCH/8(1) of cell D
C_SDCCH82_D_2	LOGICCH	"C_SDCCH82_D_2"	2nd SDCCH/8(2) of cell D
C_SDCCH83_D_2	LOGICCH	"C_SDCCH83_D_2"	2nd SDCCH/8(3) of cell D
C_SDCCH84_D_2	LOGICCH	"C_SDCCH84_D_2"	2nd SDCCH/8(4) of cell D
C_SDCCH85_D_2	LOGICCH	"C_SDCCH85_D_2"	2nd SDCCH/8(5) of cell D
C_SDCCH86_D_2	LOGICCH	"C_SDCCH86_D_2"	2nd SDCCH/8(6) of cell D
C_SDCCH87_D_2	LOGICCH	"C_SDCCH87_D_2"	2nd SDCCH/8(7) of cell D
C_SDCCH80_D_3	LOGICCH	"C_SDCCH80_D_3"	3rd SDCCH/8(0) of cell D
C_SDCCH81_D_3	LOGICCH	"C_SDCCH81_D_3"	3rd SDCCH/8(1) of cell D
C_SDCCH82_D_3	LOGICCH	"C_SDCCH82_D_3"	3rd SDCCH/8(2) of cell D
C_SDCCH83_D_3	LOGICCH	"C_SDCCH83_D_3"	3rd SDCCH/8(3) of cell D
C_SDCCH84_D_3	LOGICCH	"C_SDCCH84_D_3"	3rd SDCCH/8(4) of cell D
C_SDCCH85_D_3	LOGICCH	"C_SDCCH85_D_3"	3rd SDCCH/8(5) of cell D
C_SDCCH86_D_3	LOGICCH	"C_SDCCH86_D_3"	3rd SDCCH/8(6) of cell D
C_SDCCH87_D_3	LOGICCH	"C_SDCCH87_D_3"	3rd SDCCH/8(7) of cell D
C_SDCCH80_E_1	LOGICCH	"C_SDCCH80_E_1"	1st SDCCH/8(0) of cell E
C_SDCCH81_E_1	LOGICCH	"C_SDCCH81_E_1"	1st SDCCH/8(1) of cell E
C_SDCCH82_E_1	LOGICCH	"C_SDCCH82_E_1"	1st SDCCH/8(2) of cell E
C_SDCCH83_E_1	LOGICCH	"C_SDCCH83_E_1"	1st SDCCH/8(3) of cell E
C_SDCCH84_E_1	LOGICCH	"C_SDCCH84_E_1"	1st SDCCH/8(4) of cell E
C_SDCCH85_E_1	LOGICCH	"C_SDCCH85_E_1"	1st SDCCH/8(5) of cell E
C_SDCCH86_E_1	LOGICCH	"C_SDCCH86_E_1"	1st SDCCH/8(6) of cell E
C_SDCCH87_E_1	LOGICCH	"C_SDCCH87_E_1"	1st SDCCH/8(7) of cell E
C_SDCCH80_E_2	LOGICCH	"C_SDCCH80_E_2"	2nd SDCCH/8(0) of cell E
C_SDCCH81_E_2	LOGICCH	"C_SDCCH81_E_2"	2nd SDCCH/8(1) of cell E
C_SDCCH82_E_2	LOGICCH	"C_SDCCH82_E_2"	2nd SDCCH/8(2) of cell E
C_SDCCH83_E_2	LOGICCH	"C_SDCCH83_E_2"	2nd SDCCH/8(3) of cell E
C_SDCCH84_E_2	LOGICCH	"C_SDCCH84_E_2"	2nd SDCCH/8(4) of cell E
C_SDCCH85_E_2	LOGICCH	"C_SDCCH85_E_2"	2nd SDCCH/8(5) of cell E
C_SDCCH86_E_2	LOGICCH	"C_SDCCH86_E_2"	2nd SDCCH/8(6) of cell E
C_SDCCH87_E_2	LOGICCH	"C_SDCCH87_E_2"	2nd SDCCH/8(7) of cell E
C_SDCCH80_E_3	LOGICCH	"C_SDCCH80_E_3"	3rd SDCCH/8(0) of cell E
C_SDCCH81_E_3	LOGICCH	"C_SDCCH81_E_3"	3rd SDCCH/8(1) of cell E

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SDCCH82_E_3	LOGICCH	"C_SDCCH82_E_3"	3rd SDCCH/8(2) of cell E
C_SDCCH83_E_3	LOGICCH	"C_SDCCH83_E_3"	3rd SDCCH/8(3) of cell E
C_SDCCH84_E_3	LOGICCH	"C_SDCCH84_E_3"	3rd SDCCH/8(4) of cell E
C_SDCCH85_E_3	LOGICCH	"C_SDCCH85_E_3"	3rd SDCCH/8(5) of cell E
C_SDCCH86_E_3	LOGICCH	"C_SDCCH86_E_3"	3rd SDCCH/8(6) of cell E
C_SDCCH87_E_3	LOGICCH	"C_SDCCH87_E_3"	3rd SDCCH/8(7) of cell E
C_SDCCH80_F_1	LOGICCH	"C_SDCCH80_F_1"	1st SDCCH/8(0) of cell F
C_SDCCH81_F_1	LOGICCH	"C_SDCCH81_F_1"	1st SDCCH/8(1) of cell F
C_SDCCH82_F_1	LOGICCH	"C_SDCCH82_F_1"	1st SDCCH/8(2) of cell F
C_SDCCH83_F_1	LOGICCH	"C_SDCCH83_F_1"	1st SDCCH/8(3) of cell F
C_SDCCH84_F_1	LOGICCH	"C_SDCCH84_F_1"	1st SDCCH/8(4) of cell F
C_SDCCH85_F_1	LOGICCH	"C_SDCCH85_F_1"	1st SDCCH/8(5) of cell F
C_SDCCH86_F_1	LOGICCH	"C_SDCCH86_F_1"	1st SDCCH/8(6) of cell F
C_SDCCH87_F_1	LOGICCH	"C_SDCCH87_F_1"	1st SDCCH/8(7) of cell F
C_SDCCH80_F_2	LOGICCH	"C_SDCCH80_F_2"	2nd SDCCH/8(0) of cell F
C_SDCCH81_F_2	LOGICCH	"C_SDCCH81_F_2"	2nd SDCCH/8(1) of cell F
C_SDCCH82_F_2	LOGICCH	"C_SDCCH82_F_2"	2nd SDCCH/8(2) of cell F
C_SDCCH83_F_2	LOGICCH	"C_SDCCH83_F_2"	2nd SDCCH/8(3) of cell F
C_SDCCH84_F_2	LOGICCH	"C_SDCCH84_F_2"	2nd SDCCH/8(4) of cell F
C_SDCCH85_F_2	LOGICCH	"C_SDCCH85_F_2"	2nd SDCCH/8(5) of cell F
C_SDCCH86_F_2	LOGICCH	"C_SDCCH86_F_2"	2nd SDCCH/8(6) of cell F
C_SDCCH87_F_2	LOGICCH	"C_SDCCH87_F_2"	2nd SDCCH/8(7) of cell F
C_SDCCH80_F_3	LOGICCH	"C_SDCCH80_F_3"	3rd SDCCH/8(0) of cell F
C_SDCCH81_F_3	LOGICCH	"C_SDCCH81_F_3"	3rd SDCCH/8(1) of cell F
C_SDCCH82_F_3	LOGICCH	"C_SDCCH82_F_3"	3rd SDCCH/8(2) of cell F
C_SDCCH83_F_3	LOGICCH	"C_SDCCH83_F_3"	3rd SDCCH/8(3) of cell F
C_SDCCH84_F_3	LOGICCH	"C_SDCCH84_F_3"	3rd SDCCH/8(4) of cell F
C_SDCCH85_F_3	LOGICCH	"C_SDCCH85_F_3"	3rd SDCCH/8(5) of cell F
C_SDCCH86_F_3	LOGICCH	"C_SDCCH86_F_3"	3rd SDCCH/8(6) of cell F
C_SDCCH87_F_3	LOGICCH	"C_SDCCH87_F_3"	3rd SDCCH/8(7) of cell F
C_SDCCH80_G_1	LOGICCH	"C_SDCCH80_G_1"	1st SDCCH/8(0) of cell G
C_SDCCH81_G_1	LOGICCH	"C_SDCCH81_G_1"	1st SDCCH/8(1) of cell G
C_SDCCH82_G_1	LOGICCH	"C_SDCCH82_G_1"	1st SDCCH/8(2) of cell G
C_SDCCH83_G_1	LOGICCH	"C_SDCCH83_G_1"	1st SDCCH/8(3) of cell G
C_SDCCH84_G_1	LOGICCH	"C_SDCCH84_G_1"	1st SDCCH/8(4) of cell G
C_SDCCH85_G_1	LOGICCH	"C_SDCCH85_G_1"	1st SDCCH/8(5) of cell G
C_SDCCH86_G_1	LOGICCH	"C_SDCCH86_G_1"	1st SDCCH/8(6) of cell G
C_SDCCH87_G_1	LOGICCH	"C_SDCCH87_G_1"	1st SDCCH/8(7) of cell G
C_SDCCH80_G_2	LOGICCH	"C_SDCCH80_G_2"	2nd SDCCH/8(0) of cell G
C_SDCCH81_G_2	LOGICCH	"C_SDCCH81_G_2"	2nd SDCCH/8(1) of cell G
C_SDCCH82_G_2	LOGICCH	"C_SDCCH82_G_2"	2nd SDCCH/8(2) of cell G
C_SDCCH83_G_2	LOGICCH	"C_SDCCH83_G_2"	2nd SDCCH/8(3) of cell G
C_SDCCH84_G_2	LOGICCH	"C_SDCCH84_G_2"	2nd SDCCH/8(4) of cell G
C_SDCCH85_G_2	LOGICCH	"C_SDCCH85_G_2"	2nd SDCCH/8(5) of cell G
C_SDCCH86_G_2	LOGICCH	"C_SDCCH86_G_2"	2nd SDCCH/8(6) of cell G
C_SDCCH87_G_2	LOGICCH	"C_SDCCH87_G_2"	2nd SDCCH/8(7) of cell G
C_SDCCH80_G_3	LOGICCH	"C_SDCCH80_G_3"	3rd SDCCH/8(0) of cell G

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_SDCCH81_G_3	LOGICCH	"C_SDCCH81_G_3"	3rd SDCCH/8(1) of cell G
C_SDCCH82_G_3	LOGICCH	"C_SDCCH82_G_3"	3rd SDCCH/8(2) of cell G
C_SDCCH83_G_3	LOGICCH	"C_SDCCH83_G_3"	3rd SDCCH/8(3) of cell G
C_SDCCH84_G_3	LOGICCH	"C_SDCCH84_G_3"	3rd SDCCH/8(4) of cell G
C_SDCCH85_G_3	LOGICCH	"C_SDCCH85_G_3"	3rd SDCCH/8(5) of cell G
C_SDCCH86_G_3	LOGICCH	"C_SDCCH86_G_3"	3rd SDCCH/8(6) of cell G
C_SDCCH87_G_3	LOGICCH	"C_SDCCH87_G_3"	3rd SDCCH/8(7) of cell G
C_SDCCH80_H_1	LOGICCH	"C_SDCCH80_H_1"	1st SDCCH/8(0) of cell H
C_SDCCH81_H_1	LOGICCH	"C_SDCCH81_H_1"	1st SDCCH/8(1) of cell H
C_SDCCH82_H_1	LOGICCH	"C_SDCCH82_H_1"	1st SDCCH/8(2) of cell H
C_SDCCH83_H_1	LOGICCH	"C_SDCCH83_H_1"	1st SDCCH/8(3) of cell H
C_SDCCH84_H_1	LOGICCH	"C_SDCCH84_H_1"	1st SDCCH/8(4) of cell H
C_SDCCH85_H_1	LOGICCH	"C_SDCCH85_H_1"	1st SDCCH/8(5) of cell H
C_SDCCH86_H_1	LOGICCH	"C_SDCCH86_H_1"	1st SDCCH/8(6) of cell H
C_SDCCH87_H_1	LOGICCH	"C_SDCCH87_H_1"	1st SDCCH/8(7) of cell H
C_SDCCH80_H_2	LOGICCH	"C_SDCCH80_H_2"	2nd SDCCH/8(0) of cell H
C_SDCCH81_H_2	LOGICCH	"C_SDCCH81_H_2"	2nd SDCCH/8(1) of cell H
C_SDCCH82_H_2	LOGICCH	"C_SDCCH82_H_2"	2nd SDCCH/8(2) of cell H
C_SDCCH83_H_2	LOGICCH	"C_SDCCH83_H_2"	2nd SDCCH/8(3) of cell H
C_SDCCH84_H_2	LOGICCH	"C_SDCCH84_H_2"	2nd SDCCH/8(4) of cell H
C_SDCCH85_H_2	LOGICCH	"C_SDCCH85_H_2"	2nd SDCCH/8(5) of cell H
C_SDCCH86_H_2	LOGICCH	"C_SDCCH86_H_2"	2nd SDCCH/8(6) of cell H
C_SDCCH87_H_2	LOGICCH	"C_SDCCH87_H_2"	2nd SDCCH/8(7) of cell H
C_SDCCH80_H_3	LOGICCH	"C_SDCCH80_H_3"	3rd SDCCH/8(0) of cell H
C_SDCCH81_H_3	LOGICCH	"C_SDCCH81_H_3"	3rd SDCCH/8(1) of cell H
C_SDCCH82_H_3	LOGICCH	"C_SDCCH82_H_3"	3rd SDCCH/8(2) of cell H
C_SDCCH83_H_3	LOGICCH	"C_SDCCH83_H_3"	3rd SDCCH/8(3) of cell H
C_SDCCH84_H_3	LOGICCH	"C_SDCCH84_H_3"	3rd SDCCH/8(4) of cell H
C_SDCCH85_H_3	LOGICCH	"C_SDCCH85_H_3"	3rd SDCCH/8(5) of cell H
C_SDCCH86_H_3	LOGICCH	"C_SDCCH86_H_3"	3rd SDCCH/8(6) of cell H
C_SDCCH87_H_3	LOGICCH	"C_SDCCH87_H_3"	3rd SDCCH/8(7) of cell H
C_CHSDCCH8_FH	OCTETSTRING	’00’O	ch.type SDCCH8 with FH
C_CHSDCCH8_NonFH	OCTETSTRING	’01’O	ch.type SDCCH8 No FH
C_CHSDCCH4_NonFH	OCTETSTRING	’03’O	ch.type SDCCH4 NoFH
C_CHTCHF_FH	OCTETSTRING	’04’O	ch.type TCHF FH
C_CHTCHF_NonFH	OCTETSTRING	’05’O	ch.type TCHF NonFH
C_CHTCHH_FH	OCTETSTRING	’06’O	ch.type TCHH FH
C_CHTCHH_NonFH	OCTETSTRING	’07’O	ch.type TCHH NonFH
C_TCHF_ACCHF_1	LOGCH	"C_TCHF_ACCHF_1"	first TCH/F + ACCHs type channel
C_TCHF_ACCHF_2	LOGCH	"C_TCHF_ACCHF_2"	second TCH/F + ACCHs type channel
C_TCHH_ACCHH_1	LOGCH	"C_TCHH_ACCHH_1"	first TCH/H + ACCHs type channel
C_TCHH_ACCHH_2	LOGCH	"C_TCHH_ACCHH_2"	second TCH/H + ACCHs type channel
C_FCCH_SCH_BCCH_CCCH	LOGCH	"C_FCCH_SCH_BCCH_CCCH"	FCCH_SCH_BCCH_CCCH type channel

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_BCCH_CCCH_2	LOGCH	"C_BCCH_CCCH_2"	second BCCH_CCCH type channel
C_BCCH_CCCH_3	LOGCH	"C_BCCH_CCCH_3"	third BCCH_CCCH type channel
C_BCCH_CCCH_4	LOGCH	"C_BCCH_CCCH_4"	fourth BCCH_CCCH type channel
C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4	LOGCH	"C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4"	combined CCCH type channel
C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4	LOGCH	"C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4"	combined CCCH type channel for cell broadcast SM
C_SDCCH8_SACCHC8_1	LOGCH	"C_SDCCH8_SACCHC8_1"	first SDCCH/8 type channel
C_SDCCH8_SACCHC8_2	LOGCH	"C_SDCCH8_SACCHC8_2"	second SDCCH/8 type channel
C_SDCCH8_SACCHC8_3	LOGCH	"C_SDCCH8_SACCHC8_3"	3rd SDCCH/8 type channel
C_S0	SN	’000’B	time slot 0
C_S2	SN	’010’B	time slot 2
C_S3	SN	’011’B	time slot 3
C_S4	SN	’100’B	time slot 4
C_S6	SN	’110’B	time slot 6
C_SAVE	INTEGER	0	the OC_SaveAndProc saves input values
C_PROC	INTEGER	1	the OC_SvaAndProc processes saved values
C_RETRV	INTEGER	1	
C_U1	CCSTATE	1	CC state U1
C_U3	CCSTATE	3	CC state U3
C_U4	CCSTATE	4	CC state U4
C_U6	CCSTATE	6	CC state U6
C_U7	CCSTATE	7	CC state U7
C_U8	CCSTATE	8	CC state U8
C_U9	CCSTATE	9	CC state U9
C_U10	CCSTATE	10	CC state U10
C_U11	CCSTATE	11	CC state U11
C_U12	CCSTATE	12	CC state U12
C_U19	CCSTATE	19	CC state U19
C_U26	CCSTATE	26	CC state U26
C_NxtButOne	SENDINGMODE	1	send the second message on the next but one paging subblock
C_FmrAGB	SENDINGMODE	2	send the second message on the former access grant block
C_BfReOcc	SENDINGMODE	3	send the second message before the MS’s original paging subchannel re−occurs, but later than the next paging block of that CCCH

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_NxtButOneNxt	SENDINGMODE	4	nothing is sent in the next but one paging sub block, then send the second message in the next paging subblock of the MS's paging subchannel
C_CMServiceTypeE	CMSVTYPE	'0010'B	CM Service Type for emergency call.
C_Telephony	IA5String	"C_Telephony"	telephony service (TS11)
C_EmgCall	IA5String	"C_EmgCall"	emergency call service (TS12)
C_AltSpchFax	IA5String	"C_AltSpchFax"	alternate speech and G3 fax service (TS61)
C_AutoFax	IA5String	"C_AutoFax"	automatic G3 fax service (TS62)
C_Async300	IA5String	"C_Async300"	data circuit duplex async. 300 bit/s service (BS21)
C_Async1200	IA5String	"C_Async1200"	data circuit duplex async. 1200 bit/s service (BS22)
C_Async120075	IA5String	"C_Async120075"	data circuit duplex async. 1200/75 bit/s service (BS23)
C_Async2400	IA5String	"C_Async2400"	data circuit duplex async. 2400 bit/s service (BS24)
C_Async4800	IA5String	"C_Async4800"	data circuit duplex async. 4800 bit/s service (BS25)
C_Async9600	IA5String	"C_Async9600"	data circuit duplex async 9600 bit/s service (BS26)
C_Sync1200	IA5String	"C_Sync1200"	data circuit duplex sync. 1200 bit/s service (BS31)
C_Sync2400	IA5String	"C_Sync2400"	data circuit duplex sync. 2400 bit/s service (BS32)
C_Sync4800	IA5String	"C_Sync4800"	data circuit duplex sync. 4800 bit/s service (BS33)
C_Sync9600	IA5String	"C_Sync9600"	data circuit duplex sync 9600 bit/s service (BS34)
C_PAD300	IA5String	"C_PAD300"	PAD access 300 bit/s service (BS41)
C_PAD1200	IA5String	"C_PAD1200"	PAD access 1200 bit/s service (BS42)
C_PAD120075	IA5String	"C_PAD120075"	PAD access 1200/75 bit/s service (BS43)
C_PAD2400	IA5String	"C_PAD2400"	PAD access 2400 bit/s service (BS44)
C_PAD4800	IA5String	"C_PAD4800"	PAD access 4800 bit/s service (BS45)
C_PAD9600	IA5String	"C_PAD9600"	PAD access 9600 bit/s service (BS46)
C_Packet2400	IA5String	"C_Packet2400"	packt access 2400 bit/s service (BS51)
C_Packet4800	IA5String	"C_Packet4800"	packt access 4800 bit/s service (BS52)

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_Packet9600	IA5String	"C_Packet9600"	packt access 9600 bit/s service (BS53)
C_AltSpchData	IA5String	"C_AltSpchData"	alternate speech/data service (BS61)
C_SpchData	IA5String	"C_SpchData"	speech followed data service (BS81)
C_I	INTEGER	1	I command of L 2
C_one	INTEGER	1	one frequency, no hopping
C_Immass	BITSTRING	’000’B	activation for immediate assignment
C_Ass	BITSTRING	’001’B	activation for assignment
C_Asynho	BITSTRING	’010’B	activation for non synchronous handover
C_Synho	BITSTRING	’011’B	activation for synchronous handover
C_Rcv	BITSTRING	’101’B	activation for receiving only
C_LocEndRel	RelMode	’01’O	local end release
C_MaxPwrLvlD	INTEGER	15	Max power level for MS DCS
C_MaxPwrLvlG	INTEGER	19	Max power level for MS GSM
C_MsPwrLvl_8	INTEGER	8	MS Tx power level 8
C_rc_conditIEerror	REJCAU	’64’O	reject cause: Conditional IE error
C_rc_congestion	REJCAU	’16’O	reject cause: congestion
C_rc_illegal_ms	REJCAU	’03’O	reject cause: illegal MS
C_rc_illegal_me	REJCAU	’06’O	reject cause: illegal ME
C_rc_imsiunknownhlr	REJCAU	’02’O	reject cause: IMSI unknown in HLR
C_rc_imsiunknownvlr	REJCAU	’04’O	reject cause: IMSI unknown in VLR
C_rc_invalidmaninfo	REJCAU	’60’O	reject cause: invalid mandatory information
C_rc_LAnotallowed	REJCAU	’0C’O	reject cause: LocationArea is not allowed
C_rc_networkfailure	REJCAU	’11’O	reject cause: network failure
C_rc_notidentified	REJCAU	’26’O	reject cause: can not be identified
C_rc_plmn_not	REJCAU	’0B’O	reject cause: PLMN not allowed
C_rc_protocolerror	REJCAU	’6F’O	reject cause: Protocol error unspecified
C_rc_reqservoptnotsub	REJCAU	’21’O	reject cause: requested service option not subscribed
C_rc_roamingnot	REJCAU	’0D’O	reject cause: Roaming not allowed
C_Restablishment	B_1	’0’B	Restablishment allowed

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_noRestablishment	B_1	’1’B	No restablishment allowed
C_SlotNU	SN	’111’B	Slot Number not used
C_CellReselectHys12	INTEGER	6	Cell Reselection Hysteresis value 12db
C_CellReselectHys4	INTEGER	2	Cell Reselection Hysteresis value 4db
C_CellReselectHys0	INTEGER	0	Cell Reselection Hysteresis value 0db
C_RI_alternate	B_8	’11010001’B	Bcap repeat indicator for alternate (circular selection)
C_RI_follow	B_8	’11010011’B	Bcap repeat indicator for successive (sequential selection)
C_SIMIn	BOOLEAN	FALSE	SIM is always inserted in a test case
C_SIMneedRmv	BOOLEAN	TRUE	Removal of SIM is needed in a test case (SIM is not always inserted.)
C_Yes	BOOLEAN	TRUE	
C_No	BOOLEAN	FALSE	
C_Start_Imsi	INTEGER	1	Test case body starts without TMSI
C_Start_Tmsi	INTEGER	2	Test case body starts with Tmsi_01
C_Start_TmsiOff	INTEGER	5	Test case body starts with Tmsi_01. MS has been deactivated.
C_Start_Rej	INTEGER	3	Test case body starts with LAI deleted. MS has been deactivated.
C_Start_PLMNnot	INTEGER	4	Test case body starts with PLMN not allowed
C_Test_fh	INTEGER	1	Test case with possibly frequency hopping
C_Test_nfh	INTEGER	2	Test case with no frequency hopping
C_Test_egsm	INTEGER	3	Test case for egsm
C_Test_cbms	INTEGER	4	Test case for CBMS
C_normal_updating	B_2	’00’B	normal location updating
C_periodic_updating	B_2	’01’B	periodic location updating
C_normalOrperiodic	B_2	’0?’B	periodic or normal location updating
C_imsi_attach	B_2	’10’B	location updating IMSI attach
C_norm_period_attach	B_2	’??’B	imsi attach or periodic location updating or normal location updating
C_normal_paging	B_2	’00’B	normal page mode
C_extended_paging	B_2	’01’B	extended paging
C_reorg_paging	B_2	’10’B	paging reorganisation
C_sab_paging	B_2	’11’B	same as before paging
C_non_synchronised	B_2	’00’B	non−synchronised

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_synchronised	B_2	’01’B	synchronised
C_pre_synchronised	B_2	’10’B	pre−synchronised
C_pseudo_synchronised	B_2	’11’B	pseudo−synchronised
C_not_report_otd	B_1	’0’B	not report observed time difference
C_report_otd	B_1	’1’B	report observed time difference
C_Tzone0	TZONES	0	Time zone 0 (used in TC_34_2_1, TC_34_2_5_3)
C_Tzone1	TZONES	4	Time zone 4 (used in TC_34_2_2, TC_34_2_7)
C_Tzone2	TZONES	10	Time zone 10 (used in TC_34_2_3)
C_Tzone3	TZONES	15	Time zone 15 (used in TC_34_2_4)
C_Tzone4	TZONES	25	Time zone 25 (used in TC_34_2_5_1)
C_Tzone5	TZONES	35	Time zone 35 (used in TC_34_2_5_2)
C_Tzone6	TZONES	45	Time zone 45 (used in TC_34_2_8)
C_T_AssCmd	INTEGER	900	600ms + 300ms(tolerance)
C_T_Wait1stChReq	INTEGER	35000	max time for full BCCH data decoding
C_T_mrsrp	INTEGER	1500	3 times time btw 2 msr rpt.
C_T_T3124	INTEGER	675	T3124(675ms)
C_T_T3211plus	INTEGER	20000	20s
C_T_T3212	INTEGER	360000	T3212(6min)
C_T_T3212min	INTEGER	345000	T3212(6min) − 15sec
C_T_T3212dif	INTEGER	15000	Difference between T3212 and T3212min
C_T_T3210min	INTEGER	18000	90 % of timer T3210 in ms
C_T_T3210	INTEGER	20000	timer T3210 in ms
C_T_T3211min	INTEGER	13500	90% T3211 in ms
C_T_T3230min	INTEGER	13500	90% T3230 in ms
C_T_T3240min	INTEGER	9000	90% T3240 in ms
C_T_T3240tol	INTEGER	2000	20% T3240 in ms
C_T_Wait	INTEGER	5000	5s. T3126max
C_T_Wait1	INTEGER	1000	1s
C_T_Wait_FAC	INTEGER	1500	1.5s Facility response time (1s) + tolerance (0.5s)
C_release_time	INTEGER	11	release timer value
C_RegCFNRy	INTEGER	1	registration of call forwarding service for CFNRy (speech)
C_RegCFU	INTEGER	2	registration of call forwarding service for CFU (all facsimile)
C_RegCF	INTEGER	3	registration of call forwarding service for CF (all facsimile)

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_ErsCFC	INTEGER	4	erasure of call forwarding service for CFC (all facsimile)
C_ErsCFNRc	INTEGER	5	erasure of call forwarding service for CFNRc (all basic services)
C_ErsCFNRy	INTEGER	6	erasure of call forwarding service for CFNRy (all facsimile)
C_ActCF	INTEGER	7	activation of call forwarding service for CF (all synchronous services)
C_ActCFU	INTEGER	8	activation of call forwarding service for CFU (all basic services)
C_DeactCFC	INTEGER	9	deactivation of call forwarding service for CFC (speech)
C_DeactCFNRc	INTEGER	10	deactivation of call forwarding service for CFNRc (all facsimile)
C_InterrogCFC	INTEGER	11	interrogation of call forwarding service for CFC (Speech)
C_InterrogCFB	INTEGER	12	interrogation of call forwarding service for CFB (all basic services)
C_NotifyCFB	INTEGER	13	notification of call forwarding service for CFB (incoming call is forwarded)
C_NotifyCFU	INTEGER	14	notification of call forwarding service for CFU (provisioned, registered, active)
C_NotifyCFC	INTEGER	15	notification of call forwarding service for CFC (provisioned, registered, active)
C_NotifyCFNRc	INTEGER	16	notification of call forwarding service for CFNRc (Ms not reachable)
C_RegPswd	INTEGER	17	Registration of password for all call barring services
C_ActBOAC	INTEGER	18	Activation of BOAC
C_ActBICRoam	INTEGER	19	Activation of BICRoam
C_ActBOIC	INTEGER	20	Activation of BOIC
C_ActBAIC	INTEGER	21	Activation of BAIC
C_DeactBO	INTEGER	22	Deactivation of BO
C_DeactBI	INTEGER	23	Deactivation of BI
C_DeactBOICExHC	INTEGER	24	Deactivation of BOICExHC
C_NotifyBI	INTEGER	25	Notify of BI
C_InterrogBOIC	INTEGER	26	Interrogation of BOIC
C_InterrogBOICExHC	INTEGER	27	Interrogation of BOICExHC
C_Full	IA5String	"F"	full rate channel

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_Half	IA5String	"H"	half rate channel
C_nirr_dontcare	B_1	’?’B	NIRR no meaning or requested
C_Rchr_dontcare	B_2	’??’B	radio channel requirement not checked
C_Rchr_Full	B_2	’01’B	radio channel requirement : full rate
C_Rchr_DualForDualH	B_2	’1?’B	radio channel requirement : dual rate support/half rate preferred or dual rate support/full rate preferred
C_StartingTimeHO	INTEGER	238	Starting time 238 (1.1s), in TC_26_6_5_1, TC_26_6_5_4_2
C_StrT_1000	INTEGER	1000	Starting time 1000, in TC_26_6_13_1
C_Norm	OCTETSTRING	’00’O	Establish mode: normal
C_Speech	B_3	’000’B	Info. Transfer Cap. speech
C_3100Hz	B_3	’010’B	Info. Transfer Cap. 3.1 kHz
C_UDI	B_3	’001’B	Info. Transfer Cap. UDI
C_FAX3	B_3	’011’B	Info. Transfer Cap. FAX3
C_SDUintegrity	B_2	’00’B	Structure SDU integrity
C_Unstructured	B_2	’11’B	Structure Unstructured
C_struc_dontchk	B_2	’??’B	Structure not checked
C_nirr_nomeaning	B_1	’0’B	NIRR no meaning
C_no_rate_adaption	B_2	’00’B	Rate adaption no
C_rate_adaption_V110	B_2	’01’B	Rate adaption V110
C_rate_adaption_X31	B_2	’10’B	Rate adaption X31 flag
C_sacp_NA	B_3	’001’B	Signaling access NA (sec.11.8.1.5.1)
C_I440_450	B_3	’001’B	Signaling access I440/450
C_X21	B_3	’010’B	Signaling access X21
C_X28_unui	B_3	’100’B	Signaling access X28 U NUI
C_X28_nond	B_3	’101’B	Signaling access X28 non dedicated
C_X32	B_3	’110’B	Signaling access X32
C_Synchronous	B_1	’0’B	Synchronous
C_Asynchronous	B_1	’1’B	Asynchronous
C_stopbit_NA	B_1	’0’B	Number of Stop bits NA
C_stopbit_dontcare	B_1	’?’B	Number of Stop bits not care
C_databit_NA	B_1	’1’B	Number of Data bits not care
C_databit_dontcare	B_1	’?’B	Number of Data bits NA
C_300bs	B_4	’0001’B	User rate 300 bs
C_1200bs	B_4	’0010’B	User rate 1200 bs
C_120075bs	B_4	’0111’B	User rate 1200/75 bs
C_2400bs	B_4	’0011’B	User rate 2400 bs
C_4800bs	B_4	’0100’B	User rate 4800 bs
C_9600bs	B_4	’0101’B	User rate 9600 bs

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
C_parity_NA	B_3	’011’B	Parity NA
C_parity_dontcare	B_3	’???’B	Parity not care
C_ir_8kbs	B_2	’10’B	Intermediate rate 8 Kbs
C_ir_16kbs	B_2	’11’B	Intermediate rate 16 Kbs
C_ir_8or16kbs	B_2	’1?’B	Intermediate rate 8 or 16 Kbs
C_transparent	B_2	’00’B	Connection element T
C_notransparent	B_2	’01’B	Connection element NT
C_BothT	B_2	’10’B	Connection element both T
C_BothNT	B_2	’11’B	Connection element both NT
C_modemt_none	B_5	’00000’B	no modem
C_modemt_V21	B_5	’00001’B	modem V21
C_modemt_V22	B_5	’00010’B	modem V22
C_modemt_V22bis	B_5	’00011’B	modem V22bis
C_modemt_V23	B_5	’00100’B	modem V23
C_modemt_V32	B_5	’00110’B	modem V32
C_modemt_abt1	B_5	’01000’B	modem Autobauding Type 1
C_ISO6429	B_5	’01000’B	Inband flow control
C_COPnoFLCT	B_5	’01100’B	No flow control
C_X25_flct	B_5	’00110’B	X25 flow control
C_Outband	FLWCNTL	0	outband flow control
C_Inband	FLWCNTL	1	outband flow control
C_Nocontrol	FLWCNTL	2	outband flow control
C_uil2p_dontcare	B_5	’?????’B	not checked
C_HSN_0	INTEGER	0	cyclic hopping
C_modemt_ce	INTEGER	1	flag value for OC_ModifyBcap
C_modemt_Tlist	INTEGER	2	flag value for OC_ModifyBcap
C_modemt_NTlist	INTEGER	3	flag value for OC_ModifyBcap
C_modemList_ce	INTEGER	4	flag value for OC_ModifyBcap
C_modemList_Tlist	INTEGER	5	flag value for OC_ModifyBcap
C_modemList_NTlist	INTEGER	6	flag value for OC_ModifyBcap
maxAddressLength	Asn1Integer	20	
maxISDN_AddressLength	Asn1Integer	9	
maxISDN_SubaddressLength	Asn1Integer	21	
maxNumOfBasicServiceGroups	Asn1Integer	13	
maxNumOfCUG	Asn1Integer	10	
maxNumberOfSegmentsPerDataInterval	Asn1Integer	8191	
maxSignalInfoLength	Asn1Integer	200	
maxUSSD_StringLength	Asn1Integer	160	

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Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
max10TimesIncrement	Asn1Integer	8191	
max10TimesIncrementPerDataInterval	Asn1Integer	8191	
max10TimesInitialTime	Asn1Integer	8191	
max100TimesScalingFactor	Asn1Integer	8191	
max10TimesTimeInterval	Asn1Integer	8191	
max10TimesUnitsPerTime	Asn1Integer	8191	
Detailed Comments :			

Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_CC	BOOLEAN	TSPC_Serv_TS11 OR TSPC_Serv_TS12 OR TSPC_Serv_TS61 OR TSPC_Serv_TS62 OR TSPC_Serv_BS21 OR TSPC_Serv_BS22 OR TSPC_Serv_BS23 OR TSPC_Serv_BS24 OR TSPC_Serv_BS25 OR TSPC_Serv_BS26 OR TSPC_Serv_BS31 OR TSPC_Serv_BS32 OR TSPC_Serv_BS33 OR TSPC_Serv_BS34 OR TSPC_Serv_BS41 OR TSPC_Serv_BS42 OR TSPC_Serv_BS43 OR TSPC_Serv_BS44 OR TSPC_Serv_BS45 OR TSPC_Serv_BS46 OR TSPC_Serv_BS51 OR TSPC_Serv_BS52 OR TSPC_Serv_BS53 OR TSPC_Serv_BS61 OR TSPC_Serv_BS81	
TCV_AssCmd	ASS_CMD_PDU		to hold ASSIGNMENT COMMAND PDU
TCV_B	BCAP		to hold bearer capability
TCV_Bcap1	BCAP		to hold bearer capability
TCV_BcapMT1	BCAP		to hold BC for MT call
TCV_BcapMO1	BCAP		to hold BC for MO call
TCV_Bcap2	BCAP		to hold bearer capability
TCV_BcapMT2	BCAP		to hold BC for MT call
TCV_bits1	BITSTRING		to hold a bitstring
TCV_bits2	BITSTRING		to hold a bitstring
TCV_bs_ag_blks_res	INTEGER		
TCV_bs_cc_chans	INTEGER		
TCV_bs_pa_mfrms	INTEGER		
TCV_CalledNum	CDPN		to hold called party number
TCV_CallProc	CALL_PROC_PDU		to hold CALL PROCEEDING PDU
TCV_CallCfm	CALL_CO_PDU		to hold CALL COMFIRM PDU
TCV_Cau	CAU		to hold cause
TCV_Cau0	CAU		to hold cause
TCV_CAgsm	CCHD		To compute Cell Channel Descriptor for gsm
TCV_CAdcs	CCHD		To compute Cell Channel Descriptor for dcs
TCV_CB1	OCTETSTRING		store SMSCB block data
TCV_CB2	OCTETSTRING		store SMSCB block data
TCV_CB3	OCTETSTRING		store SMSCB block data
TCV_CB4	OCTETSTRING		store SMSCB block data
TCV_CE	B_2		
TCV_Ccchg	INTEGER		CCCH_GROUP

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_Ccd0A	CCD		a copy of control channel description in use for cell A
TCV_Ccd0B	CCD		a copy of control channel description in use for cell B
TCV_Ccd0C	CCD		a copy of control channel description in use for cell C
TCV_Ccd0D	CCD		a copy of control channel description in use for cell D
TCV_Ccd0E	CCD		a copy of control channel description in use for cell E
TCV_Ccd0F	CCD		a copy of control channel description in use for cell F
TCV_Ccd0G	CCD		a copy of control channel description in use for cell G
TCV_Ccd0H	CCD		a copy of control channel description in use for cell H
TCV_cchdescr	OCTETSTRING		Frequency list of Cell Channel Descr, used in EGSM
TCV_CCst	CST		to hold call status
TCV_ch	LOGICCH	"dummy"	to hold logic channel
TCV_ch1	LOGICCH	"dummy"	to hold logic channel
TCV_sacch	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_HO	LOGICCH	"dummy"	to hold logic channel in GetSubchannel test step
TCV_sacch_B	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_C	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_D	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_E	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_F	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_G	LOGICCH	"dummy"	to hold logic channel
TCV_sacch_H	LOGICCH	"dummy"	to hold logic channel
TCV_sacch8	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch1	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch2	LOGICCH	"dummy"	to hold logic channel
TCV_sacchTch_H	LOGICCH	"dummy"	to hold logic channel
TCV_chTch	LOGICCH	"dummy"	to hold logic channel
TCV_chTch1	LOGICCH	"dummy"	to hold logic channel
TCV_chSms	LOGICCH	"dummy"	to hold logic channel
TCV_agch	LOGICCH	"dummy"	downlink access grant channel
TCV_WorkingCh	LOGICCH	"dummy"	to hold logic channel
TCV_cellid	CellID		to hold the cell identifier
TCV_Char	IA5String		to hold the IA5 char. corresponding to a DTMF tone
TCV_chd1	CHD		to hold channel description IE
TCV_cchd1	CCHD		to hold cell channel description IE

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_ChMod	CHMOD		to hold channel mode IE
TCV_ChModb	CHMOD		to hold channel mode IE for second mode in dual mode services
TCV_Tchtype	CH_TDMA	’00001’B	Traffic channel type and TDMA offset in channel description IE
TCV_chtype	CH_TDMA		to channel type and TDMA offset in channel description IE
TCV_cksn	BITSTRING		to hold the CKSN.
TCV_Cnt	INTEGER		general loop counter
TCV_Cnt1	INTEGER		general loop counter
TCV_Cnt2	INTEGER		general loop counter
TCV_Cntstart	BOOLEAN	FALSE	general loop counter start decision
TCV_Cntref	INTEGER		Reference for general loop counter
TCV_CphAlg	BITSTRING		ciphering algorithm
TCV_CphKey	BITSTRING		ciphering key
TCV_CphMd	CPHMS		ciphering mode setting
TCV_CPDataRetx	INTEGER		Number of CP Data retransmissions for SMS
TCV_ChRate	IA5String	C_Full	to hold channel rate
TCV_ChRate1	IA5String	C_Full	to hold channel rate
TCV_counter_c	INTEGER		loop counter c
TCV_counter_k	INTEGER		loop counter k
TCV_Fk	INTEGER		to hold an interval between events
TCV_flist	OCTETSTRING		Frequency List, used in EGSM for IE "frequency list" or "frequency short list"
TCV_flistl	LENGTH		Length of Frequency List, used in EGSM for IE "frequency list" or "frequency short list"
TCV_Fn	FN		to hold the frame number (T1’ , T2, T3)
TCV_Fn1	FN		to hold the frame number (T1’ , T2, T3)
TCV_Fn2	FN		to hold the frame number (T1’ , T2, T3)
TCV_FnAss	FN		to hold the frame number in AssCmd statement
TCV_FnBurst	FN		to hold the frame number of first burst of handover access
TCV_FrameNumber	INTEGER		to hold a frame number
TCV_FollowingOctets	OCTETSTRING		Contains the octets following the invoke id
TCV_HoaccPara	HOACC_PARA		Handover access timing and power

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_Horf	HORF		Variable for HO reference in HO−Messages of HO cases.
TCV_HoCMD	HO_CMD_PDU		to hold handover PDU
TCV_Hrf	HORF		to hold handover reference
TCV_iel	LENGTH		Length of IE
TCV_kcnt	INTEGER		loop counter
TCV_K	INTEGER		
TCV_L1Head0	L1HD		to hold L 1 header
TCV_L1Head	L1HD		to hold L 1 header
TCV_lac	OCTETSTRING		to hold the lac. 2 octets
TCV_lacunknown	OCTETSTRING	'????'O	to hold a wild card lac when the lac is unknown
TCV_mccunknown	OCTETSTRING	'????'O	to hold a wild card mcc value
TCV_plmnunknown	OCTETSTRING	'??'O	to hold a wild card plmn value
TCV_n	INTEGER		
TCV_Neci	BITSTRING		
TCV_M	INTEGER		counter
TCV_maio	MAIO		to hold MAIO
TCV_mae1	BITSTRING		Mobile Allocation in EGSM. It includes the 1.octet of MA
TCV_mae2	BITSTRING		Mobile Allocation in EGSM. It includes the 2.octet of MA
TCV_Max	BITSTRING		to hold Max−retrans bitstring
TCV_MemCapExcd	BOOLEAN		RP error Memory Capacity Exceeded was sent
TCV_MsrRes	MSRR		to hold measurement results
TCV_Mt	BITSTRING		to hold message type
TCV_Mt1	BITSTRING		to hold message type
TCV_Modify	MODIFY_PDU		To hold Modify message
TCV_Null	BOOLEAN		to collect useless result from some test suite operations
TCV_PgCh	LOGICCH	"dummy"	logical channel for paging
TCV_RaCh	LOGICCH	"dummy"	random access channel parameter.
TCV_Pgg	PGG		paging group
TCV_PreviousOctets	OCTETSTRING		Contains the octets previous to the invoke id
TCV_ProtErrorUnspec	BOOLEAN		RP error Protocol Error Unspecified was sent
TCV_Pwrlvl	BITSTRING		to hold the power level
TCV_Pwrlvl_ho	BITSTRING		power level for HO_CMD, used in HO cases.
TCV_Rchr	B_2		to hold Radio channel requirement
TCV_Res	BOOLEAN		to hold the result of a test suite operation
TCV_Rpmr	MR		RP message reference for SMS

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_Rqr	RQR		to hold the request reference
TCV_Rqr9	RQR		to hold the request reference differing from TCV_Rqr
TCV_Rqr10	RQR		to hold the request reference differing from TCV_Rqr, TCV_Rqr9
TCV_Rqr11	RQR		to hold the request reference differing from TCV_Rqr, TCV_Rqr9, TCV_Rqr10
TCV_Rr	BITSTRING		to hold the random request reference
TCV_Rr1	BITSTRING		to hold the random reference
TCV_Service	SERVICES		to hold basicservice selected
TCV_Service1	SERVICES		to hold basicservice selected
TCV_Setup_mo	SETUP_MO_PDU		to hold the SETUP PDU (MO)
TCV_Setup_mo1	SETUP_MO_PDU		to hold the SETUP PDU (MO)
TCV_Setup_mt	SETUP_MT_PDU		to hold the SETUP PDU (MT)
TCV_Setup_mt1	SETUP_MT_PDU		to hold the 2nd SETUP PDU (MT)
TCV_2ndtest	BOOLEAN		2nd test required in TC_11_1_1
TCV_Esetup	ESETUP_PDU		to hold the emergency SETUP PDU
TCV_Esetup1	ESETUP_PDU		to hold the emergency SETUP PDU
TCV_Ecall	BOOLEAN	FALSE	it is set to TRUE, if the service under test is emergency call
TCV_slot	SN		To hold the default slot used during the entire TC.
TCV_slt2	SN		To hold a second working slot number.
TCV_Sres	OCTETSTRING		to hold the SRES returned
TCV_sysinf5	SYSINFO5_PDU		to hold the SysInfo5 PDU
TCV_sysinfo5	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell A
TCV_sysinfo5bis	SYSINFO5bis_PDU		to hold the SysInfo5bis PDU for cell A
TCV_sysinfo5_B	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell B
TCV_sysinfo5_C	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell c
TCV_sysinfo5_D	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell D
TCV_sysinfo5_E	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell E

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_sysinfo5_F	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell F
TCV_sysinfo5_G	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell G
TCV_sysinfo5_H	SYSINFO5_PDU		to hold the SysInfo5 PDU for cell H
TCV_sysinfo5bis_A	SYSINFO5bis_PDU		to hold the SysInfo5bis PDU for cell A(TC_26_10_2_4_1)
TCV_sysinfo5bis_B	SYSINFO5bis_PDU		to hold the SysInfo5bis PDU for cell B
TCV_sysinf6	SYSINFO6_PDU		to hold the SysInfo6 PDU
TCV_sysinfo6	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell A
TCV_sysinfo6_B	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell B
TCV_sysinfo6_C	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell C
TCV_sysinfo6_D	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell D
TCV_sysinfo6_E	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell E
TCV_sysinfo6_F	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell F
TCV_sysinfo6_G	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell G
TCV_sysinfo6_H	SYSINFO6_PDU		to hold the SysInfo6 PDU for cell H
TCV_temp	INTEGER		to hold results of expressions that are to be passed as parameters
TCV_temp1	INTEGER		to hold temporary integer values
TCV_temp2	INTEGER		to hold temporary integer values
TCV_ti_v	TI_V		to hold the transaction id. value
TCV_ti_v_2	TI_V		to hold the transaction id. value for another transaction
TCV_T	INTEGER		to hold Tx−integer chosen randomly
TCV_T_TwiceTC1M	INTEGER	TSPX_TC1M * 2000	Twice TC1M in ms
TCV_chdescr_arfcn	INTEGER		ARFCN carrier of actual cell
TCV_tch_arfcn	INTEGER		ARFCN carrier for traffic channel
TCV_asscmd_ts	BITSTRING		Time slot for channel description in assignment cmd.
TCV_ts	BITSTRING		Time slot for channel description in handover cmd.

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_ia_ts	BITSTRING		Time slot for channel description in immediate assignment
TCV_tsc	TSC		To hold the default training sequence used during the entire TC.
TCV_Td	OCTETSTRING		to hold timing difference
TCV_Time	INTEGER		to hold the measured value of T310 or T305 or T308
TCV_TI	TI		to hold the transaction ID for MO calls in sending evets
TCV_TI0	TI		to hold the transaction ID for MO calls in receiving evets
TCV_TI1	TI		to hold the transaction ID
TCV_TI2	TI		to hold the transaction ID
TCV_TI3	TI		to hold the transaction ID
TCV_TI4	TI		to hold the transaction ID
TCV_tmp	INTEGER		temporary integer variable
TCV_Tx	BITSTRING		to hold Tx bitstring
TCV_S	INTEGER		to hold the S parameter
TCV_Upd	BOOLEAN		to hold the information whether the MS is updated or not,.
TCV_UssdString	IA5String		String for USS Data
TCV_UssdString1	IA5String		String for USS Data
TCV_UssdString2	IA5String		String for USS Data
TCV_InvkId	OCTETSTRING		to hold SS transaction ID
TCV_InvkId0	OCTETSTRING		to hold SS transaction ID
TCV_InvkId1	OCTETSTRING		to hold SS transaction ID
TCV_Comp	Components		to hold SS Components
TCV_Strt	STRT		to hold starting time
TCV_CBch	LOGICCH	"dummy"	Cell Broadcast channel
TCV_Tpmr	MR		TP message reference
TCV_TPOA1	BCDN		TP originating address digits
TCV_TPOA2	BCDN		TP originating address digits
TCV_TPDA	BCDN		TP destination address digits
TCV_RPOA_MT	BCDN		RP originating address digits for MT short messages
TCV_RPOA_MO	BCDN		RP originating address digits for MO short messages
TCV_RPOA1	BCDN		RP originating address digits for MT short messages
TCV_RPOA2	BCDN		RP originating address digits for MT short messages
TCV_RPDA_MT	BCDN		RP destination address digits for MT short messages

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_RPDA_MO	BCDN		RP destination address digits for MO short messages
TCV_SMTypeM	INTEGER		Replace short message type
TCV_SMTypeN	INTEGER		Replace short message type
TCV_SMcntns	OCTETSTRING		short message contents
TCV_SMSCBpack	SMSCBpack		CB message contents
TCV_freq	FRQPARA		to hold Freq type constraints
TCV_srv	SERVICES		to hold MT service
TCV_ur	B_4		to hold user rate
TCV_itc	B_3		to hold information transfer capability
TCV_sacp	B_3		to hold service access protocol
TCV_ce	B_2		to hold connection element
TCV_ce1	B_2		to hold connection element
TCV_ce3	B_2		to hold connection element
TCV_sa	B_1		to hold synchronous/asynchronous
TCV_ir	B_2		to hold intermediate rate
TCV_uil1p	B_2		to hold user information layer 1 protocol
TCV_MODEM	MODEMTYPE		
TCV_ur2	B_4		to hold user rate for second configuration
TCV_itc2	B_3		to hold information transfer capability for second configuration
TCV_sacp2	B_3		to hold service access protocol for second configuration
TCV_strc	B_2		to hold structure
TCV_sa2	B_1		to hold synchronous/asynchronous for second configuration
TCV_bcapListIndicator	INTEGER		flag for OC_ModifyBcap
TCV_supported	BOOLEAN	FALSE	used for indicating a selected service is declared supported or not
TCV_SpecialCase	BOOLEAN	FALSE	used for indicating whether a test case tests non−supported service
TCV_expta	INTEGER		Expected timing advance of access bursts in bits
TCV_expdbm	INTEGER		Expected power level of access bursts in dBm
TCV_mindbm	INTEGER		Minimum received power level of access bursts in dBm
TCV_maxdbm	INTEGER		Maximum received power level of access bursts in dBm

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TCV_nc	B_3		Number of neighbour cells in a Measurement Report to be reported on
TCV_No_of_cells	B_3		To hold no. of neighbouring cells from measurement report.
TCV_Measure_Count	INTEGER	0	To hold number of Measurement reports.
TCV_CellPresent	INTEGER		
TCV_Positive	BOOLEAN		To indicate if the unsigned results in FnArith are positive
Detailed Comments :			

PCO Type Declarations		
PCO Type	**Role**	**Comments**
SAP0_3	LT	
Detailed Comments :		

PCO Declarations			
PCO Name	**PCO Type**	**Role**	**Comments**
L	SAP0_3	LT	

Detailed Comments :
1. The PCO consists of multiple SAPs: the SAP0 and SAP3.
2. The lower tester (LT) is the user of the data link layer service.
3. The SAP0 at the lower tester controlling and observing the exchange of CC, MM, RR and SS PDUs (messages) on the DCCH, SACCH and/or RACH, BCCH, CCCH channels.
4. The SAP3 at the lower tester controlling and observing the exchange of SMS PDUs (messages) on the DCCH or SACCH channels.

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
T_dly		ms	general purpose delay timer
T_dly1		ms	general purpose delay timer
T_dly2		ms	general purpose delay timer
T_dlyAss	5000	ms	AssCmd timer, 1)
T_guard	300	s	guard timer
T_release	C_release_time	s	release timer

Detailed Comments : 1) In order to give to the lower tester enough time to dequeue and to send out the call SETUP and the other call establishment related messages in the sending buffer before starting sending of ASSINGMENT COMMAND message, the default value 5s is used in the test step AssCh_complete. In the test step AssCh_failure the timer value is set to 4s. For the TC_26_6_4_1, 600ms is used.

ASP Type Definition

ASP Name : DL_EstRq
(DL_ESTABLISH_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to request the establishment of multiple frame operation (L3 −> L2). The normal establishment procedure is initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	Norm

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstIn
(DL_ESTABLISH_INDICATION)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation (L2 −> L3). The normal establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	Norm
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstInCmsRq
(DL_ESTABLISH_INDICATION_CM_SERVICE_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM CM SERVICE REQUEST message (L2 −> L3). The contention resolution establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	CMS_RQ_PDU	CM SERVICE REQUEST
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstInLupRq
(DL_ESTABLISH_INDICATION_LOCATION_UPDATING_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM LOCATION UPDATING REQUEST message (L2 −> L3). The contention resolution establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	LUP_RQ_PDU	LOCATION UPDATING REQUEST
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstInImsidIn
(DL_ESTABLISH_INDICATION_IMSI_DETACH_INDICATION)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM IMSI DETACH INDICATION message (L2 −> L3). The contention resolution establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	IMSID_IN_PDU	IMSI DETACH
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstInPgRes
(DL_ESTABLISH_INDICATION_PAGING_RESPONSE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the RR PAGING RESPONSE message (L2 −> L3). The contention resolution establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	PG_RES_PDU	PAGING RESPONSE
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstInCmreRq
(DL_ESTABLISH_INDICATION_CM_REESTABLISHMENT_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the establishment of multiple frame operation due to the receipt of the MM CM REESTABLISHMENT REQUEST message (L2 −> L3). The contention resolution establishment procedure has been initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	CoRes
msg	CMRE_RQ_PDU	CM REESTABLISHMENT REQUEST
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_EstCo
(DL_ESTABLISH_CONFIRM)

PCO Type : SAP0_3

Comments : The ASP is used by the L2 to inform the L3 about the establishment of multiple frame link (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
establish_mode	EstMode	Norm

Detailed Comments :

ASP Type Definition

ASP Name : DL_RelIn
(DL_RELEASE_INDICATION)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the termination of an established multiple frame operation or to report an unsuccessful establishment attempt (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
release_mode	RelMode	normal, local end release
outstanding_indicator	BOOLEAN	
fn	FN	frame number of the first frame carrying the message

Detailed Comments : The outstanding indicator indicates whether or not there are outstanding acknowledgements or unsolved DL_DATA_REQUEST primitives.

ASP Type Definition

ASP Name : DL_RacInChRq
(DL_RANDOM_ACCESS_INDICATION_CHANNEL_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the arrival of an RR CHANNEL REQUEST message (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0,
logic_ch	LOGICCH	RACH
fn	FN	frame number when the access burst was received
msg	CH_RQ_PDU	REQUEST REFERENCE

Detailed Comments :

ASP Type Definition

ASP Name : DL_RacInHoacc
(DL_RADOM_ACCESS_INDICATION_HANDOVER_ACCESS)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the arrival of an RR HANDOVER ACCESS message (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0,
logic_ch	LOGICCH	DCCH
msg	HOACC_PDU	HANDOVER REFERENCE
fn	FN	frame number of the frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmass
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	RACH (CCCH)
msg	IMMASS_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmass_sp
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT message using unacknowledged operation (L3 −> L2) on the MS paging channel.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	PGCH
pgg	PGG	Paging group of the mobile to be paged.
msg	IMMASS_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmassx
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_EXTENDED)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT EXTENDED message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	AGCH (CCCH)
msg	IMMASSX_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmassx_sp
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_EXTENDED)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT EXTENDED message using unacknowledged operation (L3 −> L2) on the MS paging channel.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	PGCH
pgg	PGG	Paging group of the mobile to be paged.
msg	IMMASSX_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmassRej
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_REJECT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT REJECT message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	AGCH (CCCH)
msg	IMMASS_REJ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqImmassRej_sp
(DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_REJECT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR IMMEDIATE ASSIGNMENT REJECT message using unacknowledged operation (L3 −> L2) on the MS paging channel.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	PGCH
pgg	PGG	Paging group of the mobile to be paged.
msg	IMMASS_REJ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatIn

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the filler frame message using unacknowledged operation

Parameter Name	Parameter Type	Comments
sapi	SAPID	
logic_ch	LOGICCH	
fn	FN	

Detailed Comments :

ASP Type Definition		
ASP Name : DL_UdatInMsrRpt (DL_DATA_INDICATION_MEASUREMENT_REPORT)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR MEASUREMENT REPORT message using unacknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	MSR_RPT_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASPs are continuously received during the testing.		

ASP Type Definition		
ASP Name : DL_UdatRqSMSCBData (DL_UNIT_DATA_REQUEST_SMSCB_DATA)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the SMSCB data using unacknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	3
logic_ch	LOGICCH	CBCH
msg	SMSCB_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UdatRqPg1Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE1)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 1 message using unacknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	CCCH
pgg	PGG	the paging group of an MS to be paged
msg	PG1_RQ_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_UdatRqPg2Rq
(DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE2)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 2 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	CCCH
pgg	PGG	the paging group of an MS to be paged
msg	PG2_RQ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqPg3Rq
(DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE3)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR PAGING REQUEST TYPE 3 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	CCCH
pgg	PGG	the paging group of an MS to be paged
msg	PG3_RQ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSchinfo
(DL_UNIT_DATA_REQUEST_SYNCHRONIZATION_CHANNEL_INFORMATION)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYNCHRONIZATION CHANNEL INFORMATION message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SCH (BCCH)
msg	SCHINFO_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo1
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 1 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO1_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo1_nh
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 3 message in case of non hopping

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO3_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo2
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 2 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO2_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo2bis
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2bis)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 2bis message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO2bis_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo2ter
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2ter)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 2ter message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO2ter_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo3
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE3)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 3 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO3_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo4
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE4)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 4 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO4_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo5
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 5 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO5_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo5bis
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5bis)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 5bis message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO5bis_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo5ter
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5ter)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 5ter message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO5ter_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo6
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE6)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 6 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	SACCH
msg	SYSINFO6_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo7
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE7)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 7 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO7_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatRqSysinfo8
(DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE8)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR SYSTEM INFORMATION TYPE 8 message using unacknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	BCCH
msg	SYSINFO8_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_UdatInClmChn
(DL_UdatINDICATION_CLASSMARK_CHANGE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the RR CLASSMARK CHANGE message using unacknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CLM_CHN_PDU	20 octets
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqAssCmd
(DL_DATA_REQUEST_ASSIGNMENT_COMMAND)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR ASSIGNMENT COMMAND message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ASS_CMD_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInAssCom
(DL_DATA_INDICATION_ASSIGNMENT_COMPLETE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the RR ASSIGNMENT COMPLETE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ASS_COM_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the ASSIGNMENT COMPLETE message.

ASP Type Definition

ASP Name : DL_DatInAssfl
(DL_DATA_INDICATION_ASSIGNMENT_FAILURE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the RR ASSIGNMENT FAILURE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH (old channel)
msg	ASSFL_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the ASSIGNMEN FAILURE message.

ASP Type Definition

ASP Name : DL_DatInCmsRq
(DL_DATA_INDICATION_CM_SERVICE_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the MM CM SERVICE REQUEST message (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
msg	CMS_RQ_PDU	CM SERVICE REQUEST
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqChmmo
(DL_DATA_REQUEST_CHANNEL_MODE_MODIFY)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR CHANNEL MODE MODIFY message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CHMMO_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInChmmoAck
(DL_DATA_INDICATION_CHANNEL_MODE_MODIFY_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the RR CHANNEL MODE MODIFY ACKNOWLEDGE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CHMMO_ACK_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqChRel
(DL_DATA_REQUEST_CHANNEL_RELEASE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR CHANNEL_RELEASE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CH_REL_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqChRelErr
(DL_DATA_REQUEST_CHANNEL_RELEASE_ERROR)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR CHANNEL_RELEASE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CH_REL_PDU_ERR	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqCphmCmd
(DL_DATA_REQUEST_CIPHERING_MODE_COMMAND)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR CIPHERING_MODE_COMMAND message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_CMD_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqCphmCmdErr
(DL_DATA_REQUEST_CIPHERING_MODE_COMMAND_ERROR)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the invalid RR CIPHERING_MODE_COMMAND message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_CMD_PDU_ERR	

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatInCphmCom (DL_DATA_INDICATION_CIPHERING_MODE_COMPLETE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR CIPHERING MODE COMPLETE message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CPHM_COM_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInClmChn (DL_DAT_INDICATION_CLASSMARK_CHANGE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR CLASSMARK CHANGE message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CLM_CHN_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqClmEnq (DL_DATA_REQUEST_CLASSMARK_ENQUIRY)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR CLASSMARK ENQUIRY message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CLM_ENQ_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqFrqre
(DL_DATA_REQUEST_FREQUENCY_REDEFINITION)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR FREQUENCY REDEFINITION message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	FRQRE_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqHoCmd
(DL_DATA_REQUEST_HANDOVER_COMMAND)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the RR HANDOVER COMMAND message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HO_CMD_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInHoCom
(DL_DATA_INDICATION_HANDOVER_COMPLETE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the RR HANDOVER COMPLETE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HO_COM_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the HANDOVER COMPLETE message.

ASP Type Definition		
ASP Name : DL_DatInHofl (DL_DATA_INDICATION_HANDOVER_FAILURE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR HANDOVER FAILURE message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH (old channel)
msg	HOFL_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the HANDOVER FAILURE message.		

ASP Type Definition		
ASP Name : DL_DatRqPhyinfo (DL_DATA_REQUEST_PHYSICAL_INFORMATION)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the RR PHYSICAL INFORMATION message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	PHYINFO_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInRrst (DL_DATA_INDICATION_RR_STATUS)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the RR STATUS message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	RRST_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqAuthRej
(DL_DATA_REQUEST_AUTHENTICATION_REJECT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the MM AUTHENTICATION REJECT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	AUTH_REJ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqAuthRq
(DL_DATA_REQUEST_AUTHENTICATION_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the MM AUTHENTICATION REQUEST message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	AUTH_RQ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInAuthRes
(DL_DATA_INDICATION_AUTHENTICATION_RESPONSE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the MM AUTHENTICATION RESPONSE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	AUTH_RES_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqCmsAcp (DL_DATA_REQUEST_CM_SERVICE_ACCEPT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the MM CM SERVICE ACCEPT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CMS_ACP_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCmsRej (DL_DATA_REQUEST_CM_SERVICE_REJECT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the MM CM SERVICE REJECT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CMS_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqAbrt (DL_DATA_REQUEST_ABORT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the MM ABORT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ABRT_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqIdRq
(DL_DATA_REQUEST_IDENTITY_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the MM IDENTITY REQUEST message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ID_RQ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInIdRes
(DL_DATA_INDICATION_IDENTIFY_RESPONSE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the MM IDENTITY RESPONSE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ID_RES_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqLupAcp
(DL_DATA_REQUEST_LOCATION_UPDATING_ACCEPT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the MM LOCATION UPDATING ACCEPT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	LUP_ACP_PDU	

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqLupAcpErr (DL_DATA_REQUEST_LOCATION_UPDATING_ACCEPT_ERR)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the MM LOCATION UPDATING ACCEPT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	LUP_ACP_PDU_ERR	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqLupRej (DL_DATA_REQUEST_LOCATION_UPDATING_REJECT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the MM LOCATION UPDATING REJECT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	LUP_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInMmst (DL_DATA_INDICATION_MM_STATUS)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the MM STATUS message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MMST_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqTmsireCmd
(DL_DATA_REQUEST_TMSI_REALLOCATION_COMMAND)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the MM TMSI REALLOCATION COMMAND message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TMSIRE_CMD_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInTmsireCom
(DL_DATA_INDICATION_TMSI_REALLOCATION_COMPLETE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the MM TMSI REALLOCATION COMPLETE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	TMSIRE_COM_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqAlert
(DL_DATA_REQUEST_ALERTING)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC ALERTING message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ALERT_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInAlert
(DL_DATA_INDICATION_ALERTING)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC ALERTING message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ALERT_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInCallCo
(DL_DATA_INDICATION_CALL_CONFIRMED)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC CALL CONFIRMED message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CALL_CO_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqCallProc
(DL_DATA_REQUEST_CALL_PROCEEDING)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC CALL PROCEEDING message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CALL_PROC_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqConn
(DL_DATA_REQUEST_CONNECT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC CONNECT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqConnErr
(DL_DATA_REQUEST_CONNECT_ERR)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC CONNECT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU_ERR	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInConn
(DL_DATA_INDICATION_CONNECT)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC CONNECT message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqConnAck (DL_DATA_REQUEST_CONNECT_ACKNOWLEDGE)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC CONNECT ACKNOWLEDGE message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_ACK_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInConnAck (DL_DATA_INDICATION_CONNECT_ACKNOWLEDGE)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the reception of the CC CONNECT ACKNOWLEDGE message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_ACK_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqDisc (DL_DATA_REQUEST_DISCONNECT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC DISCONNECT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	DISC_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqDiscErr
(DL_DATA_REQUEST_DISCONNECT_ERR)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC DISCONNECT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	DISC_PDU_ERR	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInDisc
(DL_DATA_INDICATION_DISCONNECT)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC DISCONNECT message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	DISC_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInESetup
(DL_DATA_INDICATION_EMERGENCY_SETUP)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC EMERGENCY_SETUP message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ESETUP_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqFac
(DL_DATA_REQUEST_FACILITY)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC FACILITY message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	FAC_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInFac
(DL_DATA_INDICATION_FACILITY)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC FACILITY message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	FAC_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInHold
(DL_DATA_INDICATION_HOLD)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC HOLD message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HOLD_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqHoldAck
(DL_DATA_REQUEST_HOLD_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC HOLD ACKNOWLEDGE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	HOLD_ACK_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqModify
(DL_DATA_REQUEST_MODIFY)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC MODIFY message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MODIFY_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInModify
(DL_DATA_INDICATION_MODIFY)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC MODIFY message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MODIFY_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqModifyCom (DL_DATA_REQUEST_MODIFY_COMPLETE)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC MODIFY COMPLETE message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MODIFY_COM_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqModifyRej (DL_DATA_REQUEST_MODIFY_REJECT)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC MODIFY REJECT message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MODIFY_REJ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInModifyRej (DL_DATA_INDICATION_MODIFY_REJECT)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the CC MODIFY REJECT message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	MODIFY_REJ_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqNotify
(DL_DATA_REQUEST_NOTIFY)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC NOTIFY message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	NOTIFY_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqProg
(DL_DATA_REQUEST_PROGRESS)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC PROGRESS message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	PROG_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqRegister
(DL_DATA_REQUEST_REGISTER)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the SS REGISTER message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REGISTER_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInRegister
(DL_DATA_INDICATION_REGISTER)

PCO Type : SAP0_3

Comments : The ASP is used to receive the transmission of the SS REGISTER message using acknowledged operation.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REGISTER_PDU	
fn	FN	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqRel
(DL_DATA_REQUEST_RELEASE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC RELEASE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInRel
(DL_DATA_INDICATION_RELEASE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC RELEASE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqRelCmp
(DL_DATA_REQUEST_RELEASE_COMPLETE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC RELEASE COMPLETE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_COM_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInRelCmp
(DL_DATA_INDICATION_RELEASE_COMPLETE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC RELEASE COMPLETE message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	REL_COM_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqSetup
(DL_DATA_REQUEST_SETUP)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC SETUP message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	SETUP_MT_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInSetup
(DL_DATA_INDICATION_SETUP)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC SETUP message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	SETUP_MO_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInStartDtmf
(DL_DATA_INDICATION_START_DTMF)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC START_DTMF message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	START_DTMF_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqStartDtmfAck
(DL_DATA_REQUEST_START_DTMF_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC START DTMF ACKNOWLEDGE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	START_DTMF_ACK_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqStartDtmfRej
(DL_DATA_REQUEST_START_DTMF_REJCT)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC START DTMF REJCT message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	START_DTMF_REJ_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInStopDtmf
(DL_DATA_INDICATION_STOP_DTMF)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the CC STOP_DTMF message using acknowledged operation (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	STOP_DTMF_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqStopDtmfAck
(DL_DATA_REQUEST_STOP_DTMF_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CC STOP DTMF ACKNOWLEDGE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	STOP_DTMF_ACK_PDU	

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqCcst (DL_DATA_REQUEST_CC_STATUS)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC STATUS message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInCcst (DL_DATA_INDICATION_CC_STATUS)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the CC STATUS message using acknowledged operation (L2 −> L3).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCcstEnq (DL_DATA_REQUEST_CC_STATUS_ENQ)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the CC STATUS_ENQ message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_ENQ_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatRqUndefCC
(DL_DATA_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to transmit any message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CONN_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqUndefMM
(DL_DATA_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to transmit any message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	ID_RES_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqUndefRR
(DL_DATA_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to transmit any message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	PART_REL_PDU	

Detailed Comments :

ASP Type Definition		
ASP Name : DL_DatRqUnknown (DL_DATA_REQUEST)		
PCO Type : SAP0_3		
Comments : The ASP is used to transmit any message using acknowledged operation (L3 −> L2).		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	0
logic_ch	LOGICCH	DCCH
msg	CCST_ENQ_PDU	
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatInCpData (DL_DATA_INDICATION_CP_DATA)		
PCO Type : SAP0_3		
Comments : The ASP is used to indicate the receipt of the SMS CP DATA message using acknowledged operation (L2 −> L3) for MT.		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	3
logic_ch	LOGICCH	DCCH
msg	CP_DATA_PDU	
fn	FN	frame number of the first frame carrying the message
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DatRqCpData (DL_DATA_REQUEST_CP_DATA)		
PCO Type : SAP0_3		
Comments : The ASP is used to request the transmission of the SMS CP DATA message using acknowledged operation (L3 −> L2) for MO.		
Parameter Name	**Parameter Type**	**Comments**
sapi	SAPID	3
logic_ch	LOGICCH	DCCH
msg	CP_DATA_PDU	
Detailed Comments :		

ASP Type Definition

ASP Name : DL_DatInCpDataAck
(DL_DATA_INDICATION_CPDATA_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the SMS CP DATA message using acknowledged operation (L2 −> L3) .

Parameter Name	Parameter Type	Comments
sapi	SAPID	3
logic_ch	LOGICCH	DCCH
msg	CPDATA_ACK_PDU	
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqCpDataAck
(DL_DATA_REQUEST_CPDATA_ACKNOWLEDGE)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the CP DATA ACKNOWLEDGE message using acknowledged operation (L3 −> L2).

Parameter Name	Parameter Type	Comments
sapi	SAPID	3
logic_ch	LOGICCH	DCCH
msg	CPDATA_ACK_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatRqCpError
(DL_DATA_REQUEST_CP_ERROR)

PCO Type : SAP0_3

Comments : The ASP is used to request the transmission of the SMS CP ERROR message using acknowledged operation (L3 −> L2) for MO.

Parameter Name	Parameter Type	Comments
sapi	SAPID	3
logic_ch	LOGICCH	DCCH
msg	CPERR_PDU	

Detailed Comments :

ASP Type Definition

ASP Name : MDL_RelRq
(MDL_RELEASE_REQUEST)

PCO Type : SAP0_3

Comments : The ASP is used to request the local end termiination of a previous established acknowledged mode operation (L3 −> L2). The local end termination procedure is initiated.

Parameter Name	Parameter Type	Comments
sapi	SAPID	0, 3
logic_ch	LOGICCH	DCCH, SACCH
release_mode	RelMode	local end release

Detailed Comments :

ASP Type Definition

ASP Name : DL_DatInImsidIn
(DL_DATA_INDICATION_IMSI_DETACH_INDICATION)

PCO Type : SAP0_3

Comments : The ASP is used to indicate the receipt of the MM IMSI DETACH INDICATION message (L2 −> L3).

Parameter Name	Parameter Type	Comments
sapi	SAPID	0
logic_ch	LOGICCH	DCCH, SACCH
msg	IMSID_IN_PDU	IMSI DETACH
fn	FN	frame number of the first frame carrying the message

Detailed Comments :

PDU Type Definition

PDU Name : ASS_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR ASSSIGNMENT COMMAND n −> ms
GSM 04.08, 9.1.2

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ch1d_at	CHD		description of the 1st channel, after time M OCTETSTRING [3]
pcmd	PCMD		power command M OCTETSTRING [1]
frql_at	FRQL		frequency list, after time C OCTETSTRING [4..132]
cchd	CCHD		cell channel description O OCTETSTRING [17]
ch1mod	CHMOD		mode of the 1st channel O OCTETSTRING [2]
ch2d_at	CHD		description of the 2nd channel, after time O OCTETSTRING [4]
ch2mod	CHMOD		mode 2 of the 2nd channel O OCTETSTRING [2]
ma_at	MA		mobile allocation after time C OCTETSTRING [3..10]
strt	STRT		starting time O OCTETSTRING [3]
frql_bt	FRQL		frequency list, before time C OCTETSTRING [4..132]
ch1d_bt	CHD		description of the 1st channel, before time O OCTETSTRING [4]
ch2d_bt	CHD		description of the 2nd channel, before time O OCTETSTRING [4]
frqchs_bt	FRQCHS		frequency channel sequence before time C OCTETSTRING [10]
ma_bt	MA		mobile allocation before time C OCTETSTRING [3..10]
cphms	CPHMS		cipher mode setting O OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : ASS_COM_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR ASSSIGNMENT COMPLETE ms −> n
GSM 04.08, 9.1.3

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : ASSFL_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR ASSSIGNMENT FAILURE ms −> n
GSM 04.08, 9.1.4

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CHMMO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CHANNEL MODE MODIFY n −> ms
GSM 04.08, 9.1.5

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
chmod	CHMOD		channel mode M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CHMMO_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CHANNEL MODE MODIFY ACKNOWLEDGE ms −> n
GSM 04.08, 9.1.6

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
chmod	CHMOD		channel mode M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CH_REL_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CHANNEL RELEASE n −> ms
GSM 04.08, 9.1.7

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CH_REL_PDU_ERR
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CHANNEL RELEASE containing additional unknown IE n −> ms
GSM 04.08, 9.1.7

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M BITSTRING [8]
add	OCTETSTRING		additional unknown IE

Detailed Comments :

PDU Type Definition

PDU Name : CH_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CHANNEL REQUEST ms −> n
GSM 04.08, 9.1.8

Field Name	Field Type	Field Encoding	Comments
ecau_rrf	BITSTRING [8]		establishment cause / random reference M

Detailed Comments :

PDU Type Definition

PDU Name : CPHM_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CIPHERING MODE COMMAND n −> ms
GSM 04.08, 9.1.9

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cph_res	CPH_RES		cipher response M BITSTRING [4]
cphms	CPHMS		cipher mode setting M BITSTRING [4]

Detailed Comments :

PDU Type Definition

PDU Name : CPHM_CMD_PDU_ERR
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CIPHERING MODE COMMAND with additional unknown IE
GSM 04.08, 9.1.9

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cph_res	CPH_RES		cipher response M BITSTRING [4]
cphms	CPHMS		cipher mode setting M BITSTRING [4]
add	OCTETSTRING		additional unknown IE

Detailed Comments :

PDU Type Definition

PDU Name : CPHM_COM_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CIPHERING MODE COMPLETE ms −> n
GSM 04.08, 9.1.10

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mei	MI		mobile equipment identity O OCTETSTRING [10], 15 digits, BCD

Detailed Comments :

PDU Type Definition

PDU Name : CLM_CHN_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CLASSMARK CHANGE ms −> n
GSM 04.08, 9.1.11

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msclm	MSCLM2		mobile station classmark M OCTETSTRING [4]
msclm_adi	MSCLM3		addtional mobile station classmark information C OCTETSTRING [14]

Detailed Comments :

PDU Type Definition

PDU Name : CLM_ENQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR CLASSMARK ENQUIRY n −> ms
GSM 04.08, 9.1.12

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : FRQRE_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR FREQUENCY REDEFINITIONY n −> ms
GSM 04.08, 9.1.13

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	CHD		channel description M OCTETSTRING [3]
ma	MA		mobile allocation M OCTETSTRING [2..9]
strt	STRT		starting time M OCTETSTRING [2]
cchd	CCHD		cell channel description O OCTETSTRING [17]

Detailed Comments :

PDU Type Definition

PDU Name : HOACC_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR HANDOVER ACCESS ms −> n
GSM 04.08, 9.1.14

Field Name	Field Type	Field Encoding	Comments
horf	HORF		handover reference M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : HO_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR HANDOVER COMMAND n −> ms
GSM 04.08, 9.1.15

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cd	CD		cell description M OCTETSTRING [2]
ch1d_at	CHD		description of the 1st channel, after time M OCTETSTRING [3]
horf	HORF		handover reference M BITSTRING [8]
pcmd	PCMD		power command M OCTETSTRING [1]
synchi	SYNCHI		synchronization indication O OCTETSTRING [1]
frqsl_at	FRQL		frequency short list, after time C OCTETSTRING [10]
frql_at	FRQL		frequency list, after time C OCTETSTRING [4..132]
cchd	CCHD		cell channel description C OCTETSTRING [17]
ch1mod	CHMOD		mode of the 1st channel O OCTETSTRING [2]
ch2d_at	CHD		description of the 2nd channel, after time O OCTETSTRING [4]
ch2mod	CHMOD		mode of the 2nd channel O OCTETSTRING [2]
frqchs_at	FRQCHS		frequency channel sequence, after time C OCTETSTRING [10]
ma_at	MA		mobile allocation, after time C OCTETSTRING [3..10]
strt	STRT		starting time O OCTETSTRING [3]
rtdif	TDIF		real time difference C OCTETSTRING [3]
ta	TA		timing advance C OCTETSTRING [2]
frqsl_bt	FRQL		frequency short list, before time C OCTETSTRING [10]

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PDU Type Definition			
Field Name	**Field Type**	**Field Encoding**	**Comments**
frql_bt	FRQL		frequency list, before time C OCTETSTRING [4..132]
ch1d_bt	CHD		description of the 1st channel, before time O OCTETSTRING [4]
ch2d_bt	CHD		description of the 2nd channel, before time O OCTETSTRING [4]
frqchs_bt	FRQCHS		frequency channel sequence, before time C OCTETSTRING [10]
ma_bt	MA		mobile allocation, before time C OCTETSTRING [3..10]
cphms	CPHMS		cipher mode setting O OCTETSTRING [1]
Detailed Comments :			

PDU Type Definition			
PDU Name	: HO_COM_PDU		
PCO Type	: SAP0_3		
Encoding Rule Name	:		
Encoding Variation	:		
Comments	: RR HANDOVER COMPLETE ms −> n GSM 04.08, 9.1.16		
Field Name	**Field Type**	**Field Encoding**	**Comments**
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M OCTETSTRING [1]
motdif	MTDIF		mobile observed time difference O OCTETSTRING [5]
Detailed Comments :			

PDU Type Definition

PDU Name : HOFL_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR HANDOVER FAILURE ms −> n
GSM 04.08, 9.1.17

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cuase M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : IMMASS_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE ASSIGNMENT n −> ms
GSM 04.08, 9.1.18

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
chd	CHD		channel description M OCTETSTRING [3]
rqr	RQR		request reference M OCTETSTRING [3]
ta	TA		timing advance M OCTETSTRING [1]
ma	MA		mobile allocation, M OCTETSTRING [1..9]
strt	STRT		starting time O OCTETSTRING [3]
iaroct	IARESTOCT		IA rest octets / frequency parameter, before time M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : IMMASSX_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE ASSIGNMENT n −> ms
GSM 04.08, 9.1.19

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
chd1	CHD		channel description 1 M OCTETSTRING [3]
rqr1	RQR		request reference 1 M OCTETSTRING [3]
ta1	TA		timing advance 1 M OCTETSTRING [1]
chd2	CHD		channel description 2 M OCTETSTRING [3]
rqr2	RQR		request reference 2 M OCTETSTRING [3]
ta2	TA		timing advance 2 M OCTETSTRING [1]
ma	MA		mobile allocation, M OCTETSTRING [1..5]
strt	STRT		starting time O OCTETSTRING [3]
iaxroct	OCTETSTRING [1..4]		IAX rest octets M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : IMMASS_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR IMMEDIATE REJECT n –> ms
GSM 04.08, 9.1.20

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
rqr1	RQR		request reference 1 M OCTETSTRING [3]
wi1	WI		wait indication 1 M HEXSTRING [2]
rqr2	RQR		request reference 2 M OCTETSTRING [3]
wi2	WI		wait indication 2 M HEXSTRING [2]
rqr3	RQR		request reference 3 M OCTETSTRING [3]
wi3	WI		wait indication 3 M HEXSTRING [2]
rqr4	RQR		request reference 4 M OCTETSTRING [3]
wi4	WI		wait indication 4 M HEXSTRING [2]
iarroct	OCTETSTRING [3]		IAR rest octets M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : MSR_RPT_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR MEASUREMENT REPORT ms −> n
GSM 04.08, 9.1.21

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msrr	MSRR		measurement results M OCTETSTRING [16]

Detailed Comments :

PDU Type Definition

PDU Name : PG1_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST_TYPE1 n −> ms
GSM 04.08, 9.1.22

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed for mobiles 1 and 2 M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	MI		mobility identity 1 M OCTETSTRING [2..9]
mi2	MI		mobility identity 2 O OCTETSTRING [3..10]
p1roct	OCTETSTRING [0..17]		P1 rest octets '2B2B2B...'O

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : PG2_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST TYPE2 n −> ms
GSM 04.08, 9.1.23

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	TMSI		mobility identity 1 M OCTETSTRING [4]
mi2	TMSI		mobility identity 2 M OCTETSTRING [4]
mi3	MI		mobility identity 3 O OCTETSTRING [3..10]
p2roct	OCTETSTRING [1..11]		p2 rest octets M

Detailed Comments : The message has a fixed length of 23 octets.

PDU Type Definition

PDU Name : PG3_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING REQUEST TYPE3 n −> ms
GSM 04.08, 9.1.24

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chn_m1_2	CHNEED		channels needed for mobiles 1 and 2 M BITSTRING [4]
pm	PM		page mode M BITSTRING [4]
mi1	TMSI		mobility identity 1 M OCTETSTRING [4]
mi2	TMSI		mobility identity 2 M OCTETSTRING [4]
mi3	TMSI		mobility identity 2 M OCTETSTRING [4]
mi4	TMSI		mobility identity 4 M OCTETSTRING [4]
p3roct	OCTETSTRING [3]		P3 rest octets M

Detailed Comments : The message has an L2 pseudo length of 19 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : PG_RES_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PAGING RESPONSE ms −> n
GSM 04.08, 9.1.25

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
cphksn	CPHKSN		ciphering key sequence number M BITSTRING [4]
msclm	MSCLM2		mobile station classmark information M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : PART_REL_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PARTIAL RELEASE n −> ms
GSM 04.08, 9.1.26

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
chd	MAC		wrong channel description M OCTETSTRING [3]

Detailed Comments :

PDU Type Definition

PDU Name : PHYINFO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR PHYSICAL INFORMATION n −> ms
GSM 04.08 clause 9.1.28

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ta	TA		timing advance M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : RRST_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR STATUS n <−> ms
GSM 04.08, 9.1.29

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rrcau	RRCAU		RR cause M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : SCHINFO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYNCHRONIZATION CHANNEL INFORMATION n −> ms
GSM 04.08, 9.1.30

Field Name	Field Type	Field Encoding	Comments
ncc	NCC		PLMN colour code
bcc	BCC		BS colour code
t1	T1		part of reduced TDMA frame number
t2	T2		part of reduced TDMA frame number
t3_	T3_		part of reduced TDMA frame number

Detailed Comments : SCHINFO_PDU has a total lengh of 25 bits (GSM 04.04).

PDU Type Definition

PDU Name : SYSINFO1_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE1 n −> ms
GSM 04.08, 9.1.31

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cchd	CCHD		cell channel description M OCTETSTRING [16]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
si1roct	OCTETSTRING [1]		SI1 rest octets M

Detailed Comments : The message has an L2 pseudo length of 21 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO2_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE2 n −> ms
GSM 04.08, 9.1.32

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcchfl	NCD		bcch frequency list M OCTETSTRING [16]
nccp	NCCP		ncc permitted M OCTETSTRING [1]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]

Detailed Comments : The message has an L2 pseudo length of 22 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO2bis_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE2bis or 2ter n −> ms
GSM 04.08, 9.1.33, 9.1.33a

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbcchfl	NCD		extended bcch frequency list M OCTETSTRING [16]
rachcp	RACHCP		rach control parameters M for 2bis, N/A for 2ter OCTETSTRING [3]
si2bisroct	OCTETSTRING [1..4]		SI2bis rest octets M 1 octet for 2bis, 4 octets for 2ter

Detailed Comments : This PDU type is used both for SYSINFO2bis, as well as for 2ter.
The 2bis message has an L2 pseudo length of 21 octets and a total length of 23 octets.
The 2ter message has an L2 pseudo length of 18 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO2ter_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION 2ter n −> ms
GSM 04.08, 9.1.34

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbcchfl	NCD2		extended bcch frequency list M OCTETSTRING [16]
si2terroct	OCTETSTRING[4]		SI2ter rest octets 4 octets for 2ter

Detailed Comments : The 2ter message has an L2 pseudo length of 18 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO3_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE3 n –> ms
GSM 04.08, 9.1.34

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ci	CI		cell identity M OCTETSTRING [2]
lai	LAI		location area identification M OCTETSTRING [5]
ccd	CCD		control channel description M OCTETSTRING [3]
co	CO		cell options/BCCH M, 1 octet
csp	CSP		cell selection parameters M OCTETSTRING [2]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
si3roct	SI3RO		SI3 rest octets M

Detailed Comments : The message has an L2 pseudo length of 18 octets and a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO4_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE4 n −> ms
GSM 04.08, 9.1.35

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification M OCTETSTRING [5]
csp	CSP		cell selection parameters M OCTETSTRING [2]
rachcp	RACHCP		rach control parameters M OCTETSTRING [3]
cbchd	CHD		cbch channel description M OCTETSTRING [4]
cbchma	MA		mobile allocation C OCTETSTRING [3..6]
si4roct	SI4RO		SI4 rest octets M

Detailed Comments : The message has a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO5_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE5 n −> ms
GSM 04.08, 9.1.36

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcchfl	NCD		bcch frequency list M OCTETSTRING [16]

Detailed Comments :

PDU Type Definition

PDU Name : SYSINFO5bis_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE5bis n −> ms
GSM 04.08, 9.1.38

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbcchfl	NCD		Extension of bcch frequency list M OCTETSTRING [16]

Detailed Comments :

PDU Type Definition

PDU Name : SYSINFO5ter_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE5ter n −> ms
GSM 04.08, 9.1.39

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
xbcchfl	NCD2		Extension of bcch frequency list M OCTETSTRING [16]

Detailed Comments :

PDU Type Definition

PDU Name : SYSINFO6_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE6 n −> ms
GSM 04.08, 9.1.38

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
ci	CI		cell identity M OCTETSTRING [2]
lai	LAI		location area identification M OCTETSTRING [5]
co	CO		cell options /SACCH M , 1 octet
nccp	NCCP		ncc permitted M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : SYSINFO7_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE7 n −> ms
GSM 04.08, 9.1.41

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
si7roct	SI7RO		SI7 rest octets M

Detailed Comments : The message has a total length of 23 octets.

PDU Type Definition

PDU Name : SYSINFO8_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : RR SYSTEM INFORMATION TYPE8 n −> ms
GSM 04.08, 9.1.42

Field Name	Field Type	Field Encoding	Comments
l2_pl	LENGTH		L2 pseudo length M OCTETSTRING [1]
ski	SKI		skip identifier M BITSTRING [4]
rrpd	PD		RR protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
si8roct	SI7RO		SI8 rest octets M

Detailed Comments : The message has a total length of 23 octets.

PDU Type Definition

PDU Name : ABRT_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM ABORT n −> ms
GSM 04.08, 9.2.8

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rejcau	REJCAU		reject cuase M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : AUTH_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM AUTHENTICATION REJECT n −> ms
GSM 04.08, 9.2.1

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : AUTH_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM AUTHENTICATION REQUEST n −> ms
GSM 04.08, 9.2.2

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
cphksn	CPHKSN		ciphering key sequence number M BITSTRING [4]
rand	RAND		authentication parameter rand M BITSTRING [128]

Detailed Comments :

PDU Type Definition

PDU Name : AUTH_RES_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM AUTHENTICATION RESPONSE ms −> n
GSM 04.08, 9.2.3

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
sres	SRES		authentication response signature M OCTETSTRING [4]

Detailed Comments :

PDU Type Definition

PDU Name : CMRE_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM CM REESTABLISHMENT REQUEST ms −> n
GSM 04.08, 9.2.4

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
cphksn	CPHKSN		ciphering key sequence number M BITSTRING [4]
msclm	MSCLM2		mobile station classmark M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
lai	LAI		location area identification C OCTETSTRING [6]

Detailed Comments :

PDU Type Definition

PDU Name : CMS_ACP_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM CM SERVICE ACCEPT n −> ms
GSM 04.08, 9.2.5

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CMS_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM CM SERVICE REJECT n −> ms
GSM 04.08, 9.2.6

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mmcau	REJCAU		Reject Cause M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : CMS_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM CM SERVICE REQUEST ms −> n
GSM 04.08, 9.2.9

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphksn	CPHKSN		ciphering key sequence number M BITSTRING [4]
svtype	CMSVTYPE		CM service type M BITSTRING [4]
msclm	MSCLM2		mobile station classmark M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : ID_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM IDENTITY REQUEST n −> ms
GSM 04.08, 9.2.10

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
shoct	SHOCT		spare half octet M BITSTRING [4]
idtype	IDTYPE		identity type M BITSTRING [4]

Detailed Comments :

PDU Type Definition

PDU Name : ID_RES_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM IDENTITY RESPONSE ms −> n
GSM 04.08, 9.2.11

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : IMSID_IN_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM IMSI DETACH INDICATION ms −> n
GSM 04.08, 9.2.12

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
msclm	MSCLM1		mobile station classmark M OCTETSTRING [1]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : LUP_ACP_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM LOCATION UPDATING ACCEPT n −> ms
GSM 04.08, 9.2.13

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification M OCTETSTRING [5]
mi	MI		mobility identity O OCTETSTRING [2..9]
fop	IEI_8		follow−on proceed O BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : LUP_ACP_PDU_ERR
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM LOCATION UPDATING ACCEPT n −> ms
GSM 04.08, 9.2.13

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification C OCTETSTRING [5]
mi	MI		mobility identity M OCTETSTRING [2..9]
dupmi	MI		duplicated mobile identifier

Detailed Comments :

PDU Type Definition

PDU Name : LUP_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM LOCATION UPDATING REJECT n −> ms
GSM 04.08, 9.2.14

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rejcau	REJCAU		reject cuase M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : LUP_RQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM LOCATION UPDATING REQUEST ms −> n
GSM 04.08, 9.2.15

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
cphksn	CPHKSN		ciphering key sequence number M BITSTRING [4]
lutype	LUT		location updating type M BITSTRING [4]
lai	LAI		location area identification C OCTETSTRING [6]
msclm	MSCLM1		mobile station classmark 1 M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : MMST_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM STATUS n <–> ms
GSM 04.08, 9.2.16

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
rejcau	REJCAU		reject cuase M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : TMSIRE_CMD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM TMSI REALLOCATION COMMAND n –> ms
GSM 04.08, 9.2.17

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
lai	LAI		location area identification C OCTETSTRING [6]
mi	MI		mobility identity M OCTETSTRING [2..9]

Detailed Comments :

PDU Type Definition

PDU Name : TMSIRE_COM_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : MM TMSI REALLOCATION COMPLETE ms −> n
GSM 04.08, 9.2.18

Field Name	Field Type	Field Encoding	Comments
ski	SKI		skip identifier M BITSTRING [4]
mmpd	PD		MM protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : ALERT_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC ALERTING ms <−> n
GSM 04.08, 9.3.1

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
fie	FIE		facility O
pi	PI		progress indicator n −> ms O OCTETSTRING [4]
uu	UU		user−user O OCTETSTRING [3..35]
ssvi	SSVI		SS version indicator ms −> n O OCTETSTRING [2..3]

Detailed Comments :

PDU Type Definition

PDU Name : CALL_CO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CALL CONFIRMED ms −> n
GSM 04.08, 9.3.2

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator C BITSTRING [8]
bcap1	BCAP		bearer capab. O OCTETSTRING [3..10]
bcap2	BCAP		bearer capab. O
cau	CAU		cause O OCTETSTRING [4..32]
cccap	CCCAP		cc capabilities O

Detailed Comments :

PDU Type Definition

PDU Name : CALL_PROC_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CALL PROCEEDING n −> ms
GSM 04.08, 9.3.3

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator C BITSTRING [8]
bcap1	BCAP		bearer capab. O OCTETSTRING [3..10]
bcap2	BCAP		bearer capab. O
fie	FIE		facility O
pi	PI		progress indicator O OCTETSTRING [4]

Detailed Comments :

PDU Type Definition

PDU Name : CONN_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT n <−> ms
GSM 04.08, 9.3.5

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
fie	FIE		facility O
pi	PI		progress indicator n −> ms O OCTETSTRING [4]
cnn	CNN		connected number n −> ms O OCTETSTRING [3..14]
cns	CNS		connected subaddress O OCTETSTRING [2..23]
uu	UU		user−user information O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms −> n O OCTETSTRING [2..3]

Detailed Comments :

PDU Type Definition

PDU Name : CONN_PDU_ERR
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT n <−> ms
Used as invalid message

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
unknown	UNKWN		unknown IE

Detailed Comments :

PDU Type Definition

PDU Name : CONN_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT ACKNOWLEDGE ms <−> n
GSM 04.08, 9.3.6

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : DISC_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC DISCONNECT ms <−> n (both directions)
GSM 04.08, 9.3.7

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]
fie	FIE		facility O
pi	PI		progress indicator n −> ms O OCTETSTRING [4]
uu	UU		user−user information O OCTETSTRING [3..35]
ssvi	SSVI		SS version indicator O OCTETSTRING [3]

Detailed Comments :

PDU Type Definition

PDU Name : DISC_PDU_ERR
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]
unknown	UNKWN		facility O

Detailed Comments :

PDU Type Definition

PDU Name : ESETUP_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC EMERGENCY SETUP ms −> n
GSM 04.08, 9.3.8

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcap	BCAP		bearer capab. O OCTETSTRING [3..10]

Detailed Comments :

PDU Type Definition

PDU Name : FAC_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC FACILITY n <–> ms
GSM 04.08, 9.3.9

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
cc_sspd	PD		CC or SS protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
fie	FIE		facility M
ssvi	SSVI		SS version ms –> n O OCTETSTRING [2..3]

Detailed Comments :

PDU Type Definition

PDU Name : HOLD_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC HOLD ms –> n
GSM 04.08, 9.3.10

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : HOLD_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC HOLD ACKNOWLEDGE n −> ms
GSM 04.08, 9.3.11

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : MODIFY_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC MODIFY ms <−> n
GSM 04.08, 9.3.13

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcap	BCAP		bearer capab. M OCTETSTRING [3..10]
llcmp	LLCMP		low layer compatib. O OCTETSTRING [2..15]
hlcmp	HLCMP		high layer compat. O OCTETSTRING [2..5]
rcsd	RCSD		reverse call setup direction O BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : MODIFY_COM_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC MODIFY COMPLETE ms <–> n
GSM 04.08, 9.3.14

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcap	BCAP		bearer capab. M OCTETSTRING [3..10]
llcmp	LLCMP		low layer compatib. O OCTETSTRING [2..15]
hlcmp	HLCMP		high layer compat. O OCTETSTRING [2..5]
rcsd	RCSD		reverse call setup direction O OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : MODIFY_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC MODIFY REJECT ms <–> n
GSM 04.08, 9.3.15

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcap	BCAP		bearer capab. M OCTETSTRING [3..10]
cau	CAU		cause M OCTETSTRING [4..32]
llcmp	LLCMP		low layer compatib. O OCTETSTRING [2..15]
hlcmp	HLCMP		high layer compat. O OCTETSTRING [2..5]

Detailed Comments :

PDU Type Definition

PDU Name : NOTIFY_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC NOTIFY ms <–> n
GSM 04.08, 9.3.16

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
nti	NTI		notification indicator M OCTETSTRING [1]

Detailed Comments :

PDU Type Definition

PDU Name : REGISTER_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : SS REGISTER ms <–> n
GSM 04.80, 2.4

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
sspd	PD		SMS protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
fie	FIE		facility MV[2–?]
ssvi	SSVI		SS version indicator[3] ms –> n

Detailed Comments :

PDU Type Definition

PDU Name : PROG_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC PROGRESS n −> ms
GSM 04.08, 9.3.17

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
pi	PI		progress indicator n −> ms M OCTETSTRING [4]
uu	UU		user−user information O OCTETSTRING [3..35]

Detailed Comments :

PDU Type Definition

PDU Name : REL_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC RELEASE n <−> ms
GSM 04.08, 9.3.18

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause O OCTETSTRING [4..32]
cau2	CAU		second cause
fie	FIE		facility O
uu	UU		user−user information O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms −> n O OCTETSTRING [2..3]

Detailed Comments :

PDU Type Definition

PDU Name : REL_COM_PDU

PCO Type : SAP0_3

Encoding Rule Name :

Encoding Variation :

Comments : CC or SS RELEASE COMPLETE n <–> ms
GSM 04.08, 9.3.19; GSM 04.80, 2.5

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
cc_sspd	PD		protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause O OCTETSTRING [4..32]
fie	FIE		facility O
uu	UU		user−user information O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms –> n O OCTETSTRING [2..3]

Detailed Comments :

PDU Type Definition

PDU Name : SETUP_MO_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC SETUP n <− ms
GSM 04.08, 9.3.23.2

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator C BITSTRING [8]
bcap1	BCAP		bearer capab. n −> ms O; ms −> n M
bcap2	BCAP		bearer capab. O OCTETSTRING [3..10]
fie	FIE		facility O
cgps	CGPS		calling party subaddr. O OCTETSTRING [2..23]
cdpn	CDPN		called party BCD number n −> ms O; ms −> n M OCTETSTRING[2..23]
cdps	CDPS		called party subaddr. O OCTETSTRING [2..23]
llcri	RPI		LLC repeat indicator O OCTETSTRING [1]
llcmp1	LLCMP		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	LLCMP		low layer compatib.2 n −> ms C; ms −> n O
hlcri	RPI		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	HLCMP		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	HLCMP		high layer compat. 2 n −> ms C; ms −> n O
uu	UU		user−user information O OCTETSTRING [3..35]
ssvi	SSVI		SS version ms −> n O OCTETSTRING [2..3]
clirsup	CLRSUP		CLIR suppression ms −> n C
clirinv	CLRINV		CLIR invocation ms −> n O
cccap	CCCAP		call control capabilities ms−>n O

Detailed Comments :

PDU Type Definition

PDU Name : SETUP_MT_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC SETUP n −> ms
GSM 04.08, 9.3.23.1

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M BITSTRING [4]
mt	MT		message type M BITSTRING [8]
bcri	RPI		BC repeat indicator C BITSTRING [8]
bcap1	BCAP		bearer capab. n −> ms O; ms −> n M
bcap2	BCAP		bearer capab. O OCTETSTRING [3..10]
fie	FIE		facility O
pi	PI		progress indicator n −> ms O OCTETSTRING [4]
sig	SIGNAL		signal (n −>ms) O OCTETSTRING[2..34]
cgpn	CGPN		calling party BCD number (n −>ms) O OCTETSTRING [2..24]
cgps	CGPS		calling party subaddr. O OCTETSTRING [2..23]
cdpn	CDPN		called party BCD number n −> ms O; ms −> n M OCTETSTRING[2..23]
cdps	CDPS		called party subaddr. O OCTETSTRING [2..23]
llcri	RPI		LLC repeat indicator O OCTETSTRING [1]
llcmp1	LLCMP		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	LLCMP		low layer compatib.2 n −> ms C; ms −> n O
hlcri	RPI		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	HLCMP		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	HLCMP		high layer compat. 2 n −> ms C; ms −> n O
uu	UU		user−user information O OCTETSTRING [3..35]

Detailed Comments :

PDU Type Definition

PDU Name : SMSCB_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : SMSCB message
GSM 03.41, 9.3

Field Name	Field Type	Field Encoding	Comments
blocktype	BLOCKTYPE		
serial_number	SERIAL_NUMBER		Only for the first block
message_id	OCTETSTRING[2]		Only for the first block
dcs	TPDCS		Only for the first block
page_param	BITSTRING[8]		Only for the first block
message_contents	OCTETSTRING		

Detailed Comments :

PDU Type Definition

PDU Name : START_DTMF_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC START DTMF ms −> n
GSM 04.08, 9.3.24

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
kpf	KPF		keypad facility M OCTETSTRING [2]

Detailed Comments :

PDU Type Definition

PDU Name : START_DTMF_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC START DTMF ACKNOWLEDGE n −> ms
GSM 04.08, 9.3.25

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
kpf	KPF		keypad facility M OCTETSTRING [2]

Detailed Comments :

PDU Type Definition

PDU Name : START_DTMF_REJ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC START DTMF REJECT n −> ms
GSM 04.08, 9.3.26

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]

Detailed Comments :

PDU Type Definition

PDU Name : CCST_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC STATUS n <–> ms
GSM 04.08, 9.3.27

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]
cau	CAU		cause M OCTETSTRING [4..32]
cst	CST		call state M OCTETSTRING[1]
acst	ACST		auxiliary status O OCTETSTRING[3]

Detailed Comments :

PDU Type Definition

PDU Name : CCST_ENQ_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC STATUS ENQUIRY ms <–> n
GSM 04.08, 9.3.28

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : STOP_DTMF_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC STOP DTMF ms −> n
GSM 04.08, 9.3.29

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : STOP_DTMF_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CC STOP DTMF acknowledge n −> ms
GSM 04.08, 9.3.30

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
ccpd	PD		CC protocol discriminator M
mt	MT		message type M BITSTRING [8]

Detailed Comments :

PDU Type Definition

PDU Name : CP_DATA_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : SMS CP DATA ms <−> n
GSM 04.11, 7.2.1

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
smspd	PD		SMS protocol discriminator M BITSTRING [4], ’1001’B
mt	MT		message type M BITSTRING [8], ’0000 0001’
CPdata	CPDATA		CP−User data element M OCTETSTRING [1..249]

Detailed Comments : CPDATA contains RPDU − RP_ACK or RP_ERROR, either returning to the MS in case of MO, or reporting the outcome of a MT messaging attempt in case of MT .

PDU Type Definition

PDU Name : CPDATA_ACK_PDU
PCO Type : SAP0_3
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ACKNOWLEDGE ms <−> n
GSM 04.11, 7.2.2

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
smspd	PD		SMS protocol discriminator M
mt	MT		message type M BITSTRING [8], ’0000 0100’

Detailed Comments :

PDU Type Definition

PDU Name : CPERR_PDU

PCO Type : SAP0_3

Encoding Rule Name :

Encoding Variation :

Comments : CP_ERROR n <–> ms
GSM 04.11, 7.2.3

Field Name	Field Type	Field Encoding	Comments
ti	TI		transaction identifier M BITSTRING [4]
smspd	PD		SMS protocol discriminator M
mt	MT		message type M BITSTRING [8], '0001 0000'
cp_cause	CP_CAU		cp cause (RPDU) M OCTETSTRING[1..255]

Detailed Comments : CP_UDAT contains RPDU, RP_ACK or RP_ERROR, either returning to the MS in case of MO, or reporting the outcome of a MT messaging attempt in case of MT .

III

Constraints Part

Structured Type Constraint Declaration

Constraint Name : Bcap_MO(rchr1 : B_2; itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb, nsb1, ndb1 : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability without OCTET 7 for direction ms −> n

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	’07’O		length of the IE contents
extb3	’1’B		no extension
rchr	rchr1		radio channel requirement
cs	’0’B		coding standard : GSM
tm	’0’B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	’1’B		Extension
spb	’0’B		Spare
strc	strc1		structure
dplxm	’1’B		Full duplex
config	’0’B		Point to point
nirr	nirr		
est	’0’B		Demand
extb5	’1’B		Extension
accid	’00’B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	’0’B		Extension
l1id	’01’B		L1 id: default
uil1	’0000’B		User information L1 protocol
sb	sb		Synchronous
extb6a	’0’B		Extension
nsb	nsb1		number of stop bits, not checked
nb	’0’B		In band negotiation not possible
ndb	ndb1		number of data bits, not checked
ur	ur1		user rate
extb6b	’0’B		Extension
ir	ir1		intermediate rate
nictx	’0’B		NIC on Tx: not required
nicrx	’0’B		NIC on Rx: not supported
pi	parity		Parity, not checked

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
extb6c	’1’B		Extension
ce	ce1		connection element
modemt	modemt1		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_NoIEI(iel:LENGTH; extb3:EXTB; rchr:B_2; cs:B_1; tm:B_1; itc:B_3; extb4:EXTB; spb:SPB; strc:B_2; dplxm:B_1; config:B_1; nirr:B_1; est:B_1; extb5:EXTB; accid:B_2; ra:B_2; sacp:B_3; extb6:EXTB; l1id:B_2; uil1:B_4; sb:B_1; extb6a:EXTB; nsb:B_1; nb:B_1; ndb:B_1; ur:B_4; extb6b:EXTB; ir:B_2; nictx:B_1; nicrx:B_1; pi:B_3; extb6c:EXTB; ce:B_2; modemt:B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability without iei for modify, modify ack and modify complete message

Element Name	Element Value	Element Encoding	Comments
iei	–		IEI
iel	iel		length of the IE contents
extb3	extb3		no extension
rchr	rchr		radio channel requirement
cs	cs		coding standard : GSM
tm	tm		circuit
itc	itc		information transfer capability
oct_3a_etc_1	–		octet 3a etc no.1
oct_3a_etc_2	–		octet 3a etc no.2
oct_3a_etc_3	–		octet 3a etc no.3
oct_3a_etc_4	–		octet 3a etc no.4
oct_3a_etc_5	–		octet 3a etc no.5
oct_3a_etc_6	–		octet 3a etc no.6
extb4	extb4		Extension
spb	spb		Spare
strc	strc		structure
dplxm	dplxm		Full duplex
config	config		Point to point
nirr	nirr		
est	est		Demand
extb5	extb5		Extension
accid	accid		Access id
ra	ra		rate adaption
sacp	sacp		Signalling access protocol
extb6	extb6		Extension
l1id	l1id		L1 id: default
uil1	uil1		User information L1 protocol
sb	sb		Synchronous
extb6a	extb6a		Extension
nsb	nsb		number of stop bits, not checked
nb	nb		In band negotiation not possible
ndb	ndb		number of data bits, not checked
ur	ur		user rate
extb6b	extb6b		Extension
ir	ir		intermediate rate
nictx	nictx		NIC on Tx: not required

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
nicrx	nicrx		NIC on Rx: not supported
pi	pi		Parity, not checked
extb6c	extb6c		Extension
ce	ce		connection element
modemt	modemt		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_SpeechNoIEI(iel:LENGTH; extb3:EXTB; rchr:B_2; cs:B_1; tm:B_1; itc:B_3)
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : BS bearer capability without iei for modify, modify ack and modify complete message

Element Name	Element Value	Element Encoding	Comments
iei	–		IEI
iel	iel		length of the IE contents
extb3	extb3		no extension
rchr	rchr		radio channel requirement
cs	cs		coding standard : GSM
tm	tm		circuit
itc	itc		information transfer capability
oct_3a_etc_1	–		octet 3a etc no.1
oct_3a_etc_2	–		octet 3a etc no.2
oct_3a_etc_3	–		octet 3a etc no.3
oct_3a_etc_4	–		octet 3a etc no.4
oct_3a_etc_5	–		octet 3a etc no.5
oct_3a_etc_6	–		octet 3a etc no.6
extb4	–		Extension
spb	–		Spare
strc	–		structure
dplxm	–		Full duplex
config	–		Point to point
nirr	–		
est	–		Demand
extb5	–		Extension
accid	–		Access id
ra	–		rate adaption
sacp	–		Signalling access protocol
extb6	–		Extension
l1id	–		L1 id: default
uil1	–		User information L1 protocol
sb	–		Synchronous
extb6a	–		Extension
nsb	–		number of stop bits, not checked
nb	–		In band negotiation not possible
ndb	–		number of data bits, not checked
ur	–		user rate
extb6b	–		Extension
ir	–		intermediate rate
nictx	–		NIC on Tx: not required
nicrx	–		NIC on Rx: not supported
pi	–		Parity, not checked
extb6c	–		Extension

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
ce	–		connection element
modemt	–		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap7_NoIEI(iel:LENGTH; extb3:EXTB; rchr:B_2; cs:B_1; tm:B_1; itc:B_3; extb4:EXTB; spb:SPB; strc:B_2; dplxm:B_1; config:B_1; nirr:B_1; est:B_1; extb5:EXTB; accid:B_2; ra:B_2; sacp:B_3; extb6:EXTB; l1id:B_2; uil1:B_4; sb:B_1; extb6a:EXTB; nsb:B_1; nb:B_1; ndb:B_1; ur:B_4; extb6b:EXTB; ir:B_2; nictx:B_1; nicrx:B_1; pi:B_3; extb6c:EXTB; ce:B_2; modemt:B_5; extb7: EXTB; l2id: B_2; uil2: B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability without iei for modify, modify ack and modify complete message

Element Name	Element Value	Element Encoding	Comments
iei	–		IEI
iel	iel		length of the IE contents
extb3	extb3		no extension
rchr	rchr		radio channel requirement
cs	cs		coding standard : GSM
tm	tm		circuit
itc	itc		information transfer capability
oct_3a_etc_1	–		octet 3a etc no.1
oct_3a_etc_2	–		octet 3a etc no.2
oct_3a_etc_3	–		octet 3a etc no.3
oct_3a_etc_4	–		octet 3a etc no.4
oct_3a_etc_5	–		octet 3a etc no.5
oct_3a_etc_6	–		octet 3a etc no.6
extb4	extb4		Extension
spb	spb		Spare
strc	strc		structure
dplxm	dplxm		Full duplex
config	config		Point to point
nirr	nirr		
est	est		Demand
extb5	extb5		Extension
accid	accid		Access id
ra	ra		rate adaption
sacp	sacp		Signalling access protocol
extb6	extb6		Extension
l1id	l1id		L1 id: default
uil1	uil1		User information L1 protocol
sb	sb		Synchronous
extb6a	extb6a		Extension
nsb	nsb		number of stop bits, not checked
nb	nb		In band negotiation not possible
ndb	ndb		number of data bits, not checked
ur	ur		user rate
extb6b	extb6b		Extension
ir	ir		intermediate rate
nictx	nictx		NIC on Tx: not required

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
nicrx	nicrx		NIC on Rx: not supported
pi	pi		Parity, not checked
extb6c	extb6c		Extension
ce	ce		connection element
modemt	modemt		modem type
extb7	extb7		Extension
l2id	l2id		layer 2 id
uil2	uil2		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_MT(itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb : B_1; nbsb , nbdb : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability for direction n−>ms

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	’07’O		length of the IE contents
extb3	’1’B		no extension
rchr	’01’B		spare bits for n−> ms
cs	’0’B		coding standard : GSM
tm	’0’B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	’1’B		Extension
spb	’0’B		Spare
strc	strc1		structure
dplxm	’1’B		Full duplex
config	’0’B		Point to point
nirr	nirr		No meaning
est	’0’B		Demand
extb5	’1’B		Extension
accid	’00’B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	’0’B		Extension
l1id	’01’B		L1 id: default
uil1	’0000’B		User information L1 protocol
sb	sb		Synchronous
extb6a	’0’B		Extension
nsb	nbsb		number of stop bits
nb	’0’B		In band negotiation not possible
ndb	nbdb		number of data bits
ur	ur1		user rate
extb6b	’0’B		Extension
ir	ir1		intermediate rate
nictx	’0’B		NIC on Tx: not required
nicrx	’0’B		NIC on Rx: not supported
pi	parity		Parity
extb6c	’1’B		Extension

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
ce	ce1		connection element
modemt	modemt1		modem type
extb7	–		Extension
l2id	–		layer 2 id
uil2	–		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcapX_MO(rchr1 : B_2; itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb, nsb1, ndb1 : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5; fctl : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability with OCTET 7 for direction ms −> n

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	(’07’O, ’08’O)		length of the IE contents
extb3	’1’B		no extension
rchr	rchr1		radio channel requirement
cs	’0’B		coding standard : GSM
tm	’0’B		circuit
itc	itc1		information transfer capability
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	’1’B		Extension
spb	’0’B		Spare
strc	strc1		structure
dplxm	’1’B		Full duplex
config	’0’B		Point to point
nirr	nirr		
est	’0’B		Demand
extb5	’1’B		Extension
accid	’00’B		Access id
ra	ra1		rate adaption
sacp	sacp		Signalling access protocol
extb6	’0’B		Extension
l1id	’01’B		L1 id: default
uil1	’0000’B		User information L1 protocol
sb	sb		Synchronous
extb6a	’0’B		Extension
nsb	nsb1		number of stop bits
nb	’0’B		In band negotiation not possible
ndb	ndb1		number of data bits, not checked
ur	ur1		user rate
extb6b	’0’B		Extension
ir	ir1		intermediate rate
nictx	’0’B		NIC on Tx: not required
nicrx	’0’B		NIC on Rx: not supported
pi	parity		Parity
extb6c	’1’B		Extension

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
ce	ce1		connection element
modemt	modemt1		modem type
extb7	’1’B IF_PRESENT		Extension
l2id	’10’B IF_PRESENT		layer 2 id
uil2	fctl IF_PRESENT		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcapX_MT(itc1 : B_3; strc1 : B_2; nirr : B_1; ra1 :B_2; sacp : B_3; sb : B_1; nbsb , nbdb : B_1; ur1 : B_4; ir1 : B_2; parity : B_3; ce1 : B_2; modemt1 : B_5; flct : B_5)

Structured Type : BCAP

Derivation Path :

Encoding Variation :

Comments : BS bearer capability for direction n−>ms BS 21, .. 26, except BS23

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	’08’O		length of the IE contents
extb3	’1’B		no extension
rchr	’01’B		spare bits for n−> ms
cs	’0’B		coding standard : GSM
tm	’0’B		circuit mode
itc	itc1		information transfer capability
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	’1’B		
spb	’0’B		
strc	strc1		structure
dplxm	’1’B		
config	’0’B		
nirr	nirr		
est	’0’B		
extb5	’1’B		
accid	’00’B		
ra	ra1		rate adaption
sacp	sacp		
extb6	’0’B		
l1id	’01’B		
uil1	’0000’B		
sb	sb		
extb6a	’0’B		
nsb	nbsb		number of stop bits, 1
nb	’0’B		negotiation
ndb	nbdb		number of data bits, 8
ur	ur1		user rate
extb6b	’0’B		
ir	ir1		intermediate rate, 16 or 8 kbits/s
nictx	’0’B		
nicrx	’0’B		
pi	parity		Parity none
extb6c	’1’B		
ce	ce1		connection element

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
modemt	modemt1		modem type
extb7	’1’B		
l2id	’10’B		layer 2 id
uil2	flct		user information layer 2 protocol
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Bcap_02			
Structured Type : BCAP			
Derivation Path : Bcap_Speech_MT.			
Encoding Variation :			
Comments : invalid information element, length = 1, arbitrary contents.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		IEI
iel	’01’O		length of the IE
extb3	’1’B		
rchr	’11’B		
cs	’0’B		
tm	’1’B		
itc	’110’B		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_Speech_Efr_MO(rcr:B_2)
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : EFR speech bearer capability for direction ms−>n

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	(’03’O, ’04’O, ’05’O, ’06’O, ’07’O)		length of IE contents
extb3	’0’B		extension
rchr	rcr		radio channel requirements
cs	’0’B		coding standard
tm	’0’B		circuit mode
itc	’000’B		speech
oct_3a_etc_1	?		octet 3a etc no.1
oct_3a_etc_2	?		octet 3a etc no.2
oct_3a_etc_3	*		octet 3a etc no.3
oct_3a_etc_4	*		octet 3a etc no.4
oct_3a_etc_5	*		octet 3a etc no.5
oct_3a_etc_6	*		octet 3a etc no.6
extb4	−		
spb	−		
strc	−		
dplxm	−		
config	−		
nirr	−		
est	−		
extb5	−		
accid	−		
ra	−		
sacp	−		
extb6	−		
l1id	−		
uil1	−		
sb	−		
extb6a	−		
nsb	−		
nb	−		
ndb	−		
ur	−		
extb6b	−		
ir	−		
nictx	−		
nicrx	−		
pi	−		
extb6c	−		
ce	−		
modemt	−		
extb7	−		

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
l2id	–		
uil2	–		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_Speech_MO(rcr : B_2)
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : speech bearer capability for direction ms−>n.

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	’01’O		length of the IE contents
extb3	’1’B		no extension
rchr	rcr		radio channel reqirement
cs	’0’B		coding standard : GSM
tm	’0’B		circuit mode
itc	’000’B		speech
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	−		
spb	−		
strc	−		
dplxm	−		
config	−		
nirr	−		
est	−		
extb5	−		
accid	−		
ra	−		
sacp	−		
extb6	−		
l1id	−		
uil1	−		
sb	−		
extb6a	−		
nsb	−		
nb	−		
ndb	−		
ur	−		
extb6b	−		
ir	−		
nictx	−		
nicrx	−		
pi	−		
extb6c	−		
ce	−		
modemt	−		
extb7	−		

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
l2id	–		
uil2	–		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Bcap_Speech_MT
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : speech bearer capability for direction n−>ms

Element Name	Element Value	Element Encoding	Comments
iei	’00000100’B		IEI
iel	’01’O		length of the IE contents
extb3	’1’B		no extension
rchr	’01’B		spare bits for n−> ms
cs	’0’B		coding standard : GSM
tm	’0’B		circuit mode
itc	’000’B		speech
oct_3a_etc_1	−		octet 3a etc no.1
oct_3a_etc_2	−		octet 3a etc no.2
oct_3a_etc_3	−		octet 3a etc no.3
oct_3a_etc_4	−		octet 3a etc no.4
oct_3a_etc_5	−		octet 3a etc no.5
oct_3a_etc_6	−		octet 3a etc no.6
extb4	−		
spb	−		
strc	−		
dplxm	−		
config	−		
nirr	−		
est	−		
extb5	−		
accid	−		
ra	−		
sacp	−		
extb6	−		
l1id	−		
uil1	−		
sb	−		
extb6a	−		
nsb	−		
nb	−		
ndb	−		
ur	−		
extb6b	−		
ir	−		
nictx	−		
nicrx	−		
pi	−		
extb6c	−		
ce	−		
modemt	−		
extb7	−		

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
l2id	–		
uil2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Blocktype_01(seqnum: BITSTRING; lb: BITSTRING)			
Structured Type : BLOCKTYPE			
Derivation Path :			
Encoding Variation :			
Comments : Block type, GSM 04.12, 3.3.1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
spare1	’0’B		
lpd	’01’B		’01’B
lb	lb		
sequence_number	seqnum		
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BcchFreqLst_Omit			
Structured Type : NCD			
Derivation Path :			
Encoding Variation :			
Comments : Omit Bcch Frequency list (Neighbour cells description)			
Element Name	**Element Value**	**Element Encoding**	**Comments**
rfl2	–		
extind	–		
baind	–		
rfl4	–		
rfl	–		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_01
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 under GSM900 with the ARFCN list = {10, 20, 40, 80, 90, 100, 110, 120}.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’0’B		complete BA
baind	’0’B		BCCH allocation sequence number
rfl4	’0000’B		
rfl	’80200802008000000008 000080200’O		ARFCN: 10, 20, 40, 80, 90, 100, 110, 120

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_02
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Alternative neighbour cells description for SYSTEM INFORMATION 2 and 5 under GSM900. These are ARFCNs 15, 85, 95, 105, 115, and 122

Element Name	Element Value	Element Encoding	Comments
rfl4	’0010’B		
rfl	’04010040100000000000 000004000’O		ARFCN: 15, 85, 95, 105, 115, 122

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_03
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800 for cell B with the ARFCN list = {520, 600, 700, 780, 810, 870}.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
extind	’0’B		extension indication
baind	’0’B		bcch allocation sequence number indication
rfl4	’1001’B		
rfl	’04412C168E44000000000 000000000’O		ARFCN: 520, 600, 700, 780, 810, 870

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_04
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Alternative neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
extind	’0’B		extension indication
baind	’0’B		bcch allocation sequence number indication
rfl4	’1001’B		
rfl	’09412C168E44000000000 000000000’O		ARFCN: 530, 610, 710, 790, 820, 880

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_05
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 1 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’0’B		complete BA
baind	’0’B		BCCH allocation sequence number
rfl4	’1000’B		
rfl	’000001001000030000004 000000040’O		ARFCNs: 7, 39, 65, 66, 85, 97, 124

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_06
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 2 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0100’B		
rfl	’0000020020000C0000008 000000080’O		ARFCNs: 8, 40, 67, 68, 86, 98, 123

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_07
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 3 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0010’B		
rfl	’00000400400030000001 0000000100’O		ARFCNs: 9, 41, 69, 70, 87, 99, 122

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_08
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 4 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0001’B		
rfl	’000008008000C00000020 000000200’O		ARFCNs: 10, 42, 71, 72, 88, 100, 121

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_09
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 5 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0000’B		
rfl	’80001001000300000004 0000000400’O		ARFCNs: 11, 43, 73, 74, 89, 101, 120

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_10
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 6 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0000’B		
rfl	’40002002000C000000080 000000800’O		ARFCNs: 12, 44, 75, 76, 90, 102, 119

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_11
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 7 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’0000’B		
rfl	’20004004003000000010 0000001000’O		ARFCNs: 13, 45, 77, 78, 91, 103, 118

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_12
Structured Type : NCD
Derivation Path : BcchFreqLst_05.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 8 for idle mode testing of GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl4	’1000’B		
rfl	’00000000000000000000 000000000’O		ARFCN: 124

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_13
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 1 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’042DE8EDB149B8000000 0000000000’O		ARFCNs: 520, 580, 610, 702, 703, 830, 885

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_14
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 2 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’04AE28ECF0CBB8000000 0000000000’O		ARFCNs: 521, 581, 612, 704, 705, 831, 884

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_15
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 3 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’052E68EC304DB8000000 0000000000’O		ARFCNs: 522, 582, 614, 706, 707, 832, 883

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_16
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 4 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’05AEA8EB6FCFB8000000 0000000000’O		ARFCNs: 523, 583, 616, 708, 709, 833, 882

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_17
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 5 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’062F6869EF53B80000000 000000000’O		ARFCNs: 524, 584, 618, 710, 713, 835, 880

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_18
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 6 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’06AF28E9EED3B8000000 0000000000’O		ARFCNs: 525, 585, 620, 712, 713, 835, 880

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_19
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : cells description for SYSTEM INFORMATION 2 and 5 of cell 7 for idle mode testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
rfl4	’1001’B		
rfl	’072F5FE900D5480000000 000000000’O		ARFCNs: 526, 586, 622, 714, 715, 836, 879

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_20
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. Empty BA list, format is bitmap 0, IE carries complete BA.

Element Name	Element Value	Element Encoding	Comments
baind	’1’B		BCCH allocation sequence number
rfl	’000000000000000000000 000000000’O		no ARFCNs

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_21
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. BA list = {2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44}, format is bitmap 0, IE carries complete BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’0’B		complete BA
baind	’1’B		BCCH allocation sequence number
rfl4	’0000’B		
rfl	’00000000000000000008A EBAFFBFFA’O		ARFCNs: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_22
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. BA list = {2, 14, 20, 38, 44}, format is bitmap 0, IE carries complete BA.

Element Name	Element Value	Element Encoding	Comments
baind	’1’B		BCCH allocation sequence number
rfl	’00000000000000000000082 000082002’O		ARFCNs: 2, 14, 20, 38, 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_24
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : neighbour cells description with out channel for SYSTEM INFORMATION 5 for GSM. Empty BA−list. Format is bitmap 0, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’1’B		part of BA
baind	’1’B		bcch allocation sequence number indication
rfl4	’0000’B		
rfl	’00000000000000000000000 000000000’O		no channel

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_25
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description without channel for SYSTEM INFORMATION 5 for DCS1800. Empty BA−list. Format is bitmap 0, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		part of BA
baind	’1’B		
rfl4	’0000’B		
rfl	’00000000000000000000000 000000000’O		no channel

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_26
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5bis for GSM900. ARFCN 500 belongs to the BA list, format is 1024 range, IE carries only a part of the BA

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		part of BA
baind	’1’B		
rfl4	’0001’B		
rfl	’F40000000000000000000 000000000’O		ARFCN 500

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_27
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. BA list = {514, 530, 549, 602, 665, 686, 762, 810}, format is 1024 range, IE carries complete BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’0’B		complete BA
baind	’1’B		BCCH allocation sequence number
rfl4	’0010’B		
rfl	’99C6187B6D0D4C380000 0000000000’O		ARFCN 514, 530, 549, 602, 665, 686, 762, 810

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_28
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing.BA list = {2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44}, format is bitmap 0, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’1’B		partial BA
baind	’1’B		BCCH allocation sequence number
rfl4	’0000’B		
rfl	’00000000000000000008A EBAFFBFFA’O		ARFCNs: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_29
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list = {549, 602, 665, 686, 810}. Format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0010’B		
rfl	’99E0A472E100000000000 000000000’O		ARFCN 549, 602, 665, 686, 810

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_30
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5bis for measurement testing. BA list {0, 800}, format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0111’B		
rfl	’20000000000000000000000000000000’O		ARFCN 0, 800

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_31
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list {20, 514, 530, 549, 762}, format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0000’B		
rfl	’1473FF8AFC00000000000000000000’O		ARFCN 20, 514, 530, 549, 762

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_32
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list {514, 549, 602, 665, 810 }, format is range 1024, IE carries complete BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’0’B		
baind	’1’B		
rfl4	’0000’B		
rfl	’5AE5B4375BC000000000 0000000000’O		ARFCN 514, 549, 602, 665, 810

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_33
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for GSM900. BA list = {2, 14, 20, 38, 44}, format is bitmap 0, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0
extind	’1’B		partial BA
baind	’1’B		
rfl4	’0000’B		
rfl	’00000000000000000082 000082002’O		ARFCN 2, 14, 20, 38, 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_34
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list = {549, 602, 810 }, format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0010’B		
rfl	’5AE5B4000000000000000000000000’O		ARFCN 549, 602, 810

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_34d
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list = {514, 665 }, format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0010’B		
rfl	’99B480000000000000000000000000’O		ARFCN 514, 665

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_35
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing.

Element Name	Element Value	Element Encoding	Comments
baind	’1’B		BCCH allocation sequence number
rfl	’000000000000000000082082082082082’O		ARFCNs: 2, 8, 14, 20, 26, 32, 38, 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_36
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing.

Element Name	Element Value	Element Encoding	Comments
extind	’1’B		PARTIAL BA
baind	’1’B		BCCH allocation sequence number
rfl	’000000000000000000082082082002’O		ARFCNs: 2, 14, 20, 26, 32, 38, 44,

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_37
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing.

Element Name	Element Value	Element Encoding	Comments
rfl2	’00’B		bit map 0 format
extind	’1’B		partial BA
baind	’1’B		BCCH allocation sequence number
rfl4	’0000’B		
rfl	’000000000000000000000000000A2’O		ARFCNs: 2, 6, 8

Detailed Comments : only used in TC_26_6_3_5

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_38
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0110’B		
rfl	’CBA3BEB89A9048C000000000000000’O		ARFCN 500, 530, 595, 715, 815, 965, 1000, 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_39
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		variable bit map
extind	’1’B		part of the BA
baind	’1’B		
rfl4	’1111’B		
rfl	’E28000000010000014500 000000000’O		ARFCN 965, 1000, 0, 2, 6, 8

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_40
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		128 range format
extind	’1’B		
baind	’1’B		
rfl4	’1101’B		
rfl	’5B9458000000000000000 000000000’O		ARFCN 695, 715, 800

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_41
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 BIS for GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		512 range format
extind	’1’B		partial BA
baind	’1’B		
rfl4	’1001’B		
rfl	’097BBA32AE888C000000 0000000000’O		ARFCN 530, 595, 965, 1000, 715, 815, 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_42
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		512 range format
extind	’1’B		partial BA
baind	’1’B		
rfl4	’1000’B		
rfl	’FA0787AE4B88000000000 000000000’O		ARFCN 500, 530, 595, 965, 715, 815

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_43
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		variable bit map
extind	’1’B		partial BA
baind	’1’B		
rfl4	’1111’B		
rfl	’E28000000010000014400 000000000’O		ARFCN 965, 1000, 0, 2, 6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_44
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		256 range
extind	’1’B		partial BA
baind	’1’B		
rfl4	’1011’B		
rfl	’97E8E80CEF8000000000 0000000000’O		ARFCN 815, 965, 1000, 0, 2, 6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_45
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description of cell B for SYSTEM INFORMATION 2 and 5 under GSM900.

Element Name	Element Value	Element Encoding	Comments
rfl	’80200802008000000000000000200’O		ARFCN: 10, 80, 90, 100, 110, 120

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_46
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Default neighbour cells description for SYSTEM INFORMATION 2bis and 5bis in cell A under EGSMwith the ARFCN list = {988, 990, 1003}.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		256 format
extind	’1’B		not complete BA
baind	’0’B		BCCH allocation sequence number
rfl4	’1011’B		
rfl	’EE07F3000000000000000000000000’O		ARFCN: 988, 990, 1003

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_47
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Default neighbour cells description for SYSTEM INFORMATION 2bis and 5bis in cell B under EGSMwith the ARFCN list = {1005, 1010, 1015}.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		256 format
extind	’1’B		not complete BA
baind	’0’B		BCCH allocation sequence number
rfl4	’1101’B		
rfl	’F68AEC000000000000000000000000’O		ARFCN: 1005, 1010, 1015

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_48
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Default neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800 for cell B in RR, MM and SMS test cases with the ARFCN list = {520, 590, 600, 700, 747, 764, 780, 810, 870}.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 512 format
extind	’0’B		extension indication
baind	’0’B		bcch allocation sequence number indication
rfl4	’1001’B		
rfl	’043D170B8A62C8F23000 0000000000’O		ARFCN: 520, 590, 600, 700, 747, 764, 780, 810, 870

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_50
Structured Type : NCD
Derivation Path : BcchFreqLst_25.
Encoding Variation :
Comments : Neighbour cells description without channel for SYSTEM INFORMATION 5 for DCS1800. Empty BA−list. Format is bitmap 0, IE carries the complete BA.

Element Name	Element Value	Element Encoding	Comments
extind	’0’B		part of BA

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_51
Structured Type : NCD
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing. BA list { 514, 530, 762}, format is range 1024, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
rfl2	’10’B		range 1024 format
extind	’1’B		
baind	’1’B		
rfl4	’0010’B		
rfl	’12F83A000000000000000 000000000’O		ARFCN 514, 530, 762

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_52
Structured Type : NCD
Derivation Path : BcchFreqLst_33.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 5 of cell B for EGSM. BA list = {10, 36, 40, 114, 118}, format is bitmap 0, IE carries only a part of the BA.

Element Name	Element Value	Element Encoding	Comments
baind	’0’B		
rfl4	’0000’B		
rfl	’22000000000000000008 800000200’O		ARFCN 10, 36, 40, 114, 118

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst2_53
Structured Type : NCD2
Derivation Path :
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 2ter GSM 900 for cell A in 26_7_4_1 with the ARFCN list = {520,870}

Element Name	Element Value	Element Encoding	Comments
b128	’1’B		range 512 format ID
mbrpt	’00’B		Multiband Reporting
baind	’0’B		BA (BACCH) measurement reporting only
b122_124	’100’B		bit 122−124, range 512 format ID
rfl1	’1’B		
rfl	’04578000000000000000 000000000’O		ARFCN 520, 870

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst2_54
Structured Type : NCD2
Derivation Path : BcchFreqLst2_53.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 2ter DCS 1800 for cell A in 26_7_4_1 with the ARFCN list = {43, 85}

Element Name	Element Value	Element Encoding	Comments
rfl1	’0’B		
rfl	’158A80000000000000000 000000000’O		ARFCN 43, 85

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst2_55
Structured Type : NCD2
Derivation Path : BcchFreqLst2_53.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 2ter DCS 1800 for cell B in 26_7_4_1 with the ARFCN list = {590, 810}

Element Name	Element Value	Element Encoding	Comments
rfl	’27370000000000000000 000000000’O		ARFCN 590, 810

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst2_56
Structured Type : NCD2
Derivation Path : BcchFreqLst2_53.
Encoding Variation :
Comments : Neighbour cells description for SYSTEM INFORMATION 2ter DCS 1800 for cell B in 26_7_4_1 with the ARFCN list = {44, 86}

Element Name	Element Value	Element Encoding	Comments
rfl1	’0’B		
rfl	’160A80000000000000000 000000000’O		ARFCN 44, 86

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e201
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	’038C0D0C000000000000 0000000000’O		ARFCN: 26 38 Format: 128

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e202
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'058DEF07FE00000000000 000000000'O		ARFCN: 990, 1003, 1005 Format: 256

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e203
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'078904797F83F98000000 000000000'O		ARFCN: 520,990,1003,1005,1020 Format: 512

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e204
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'0987EDFF0E3CFD000000 0000000000'O		ARFCN: 0,26,38,990,1003,1005 Format: 1024

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e205
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'078E00000020020000000 000000000'O		ARFCN: 0,26,38 Format: variable bit map

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e206
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'100000000000000000000 000000200'O		ARFCN: 26 Format: Bitmap 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e207
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'078904797F83F98000000 000000000'O		ARFCN: 520, 990,1003,1005,1020 Format: 512

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e208
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'058C0026D000000000000 000000000'O		ARFCN: 0,26,38 Format: 128

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e209
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'058A00137400000000000 000000000'O		ARFCN: 0,26,38 Format: 256

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e210
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	'0583E8100500000000000 000000000'O		ARFCN: 520, 1000, 1020 Format: 1024

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e211
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	’058FBA020014000000000 000000000’O		ARFCN: 884, 990, 1003, 1005 Format: Variable bit map

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BcchFreqLst_e212
Structured Type : NCD
Derivation Path : BcchFreqLst_01.
Encoding Variation :
Comments : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.

Element Name	Element Value	Element Encoding	Comments
rfl	’06890478FCC0000000000 000000000’O		ARFCN: 520, 990, 1003 Format: 5112

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ca1_g01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1, ca_pgsm(1) = 64.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’0000000000000000FFFFF FFFFFFFFFFF’O		ARFCNs = 1.. 64, bit map 0 format

Detailed Comments : B_ARFCN = 16, not in MA(1)

Structured Type Constraint Declaration

Constraint Name : Ca2_g01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’0F00F000003C003C0000F E003C008081’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 16, not in MA(2)

Structured Type Constraint Declaration

Constraint Name : Ca2_g02
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’0101F1F10101010121010 11111111111’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 62, not in MA(2)

Structured Type Constraint Declaration

Constraint Name : Ca2_g03
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00501010101010101010101 0101010FFFF’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 5, not in MA(2)

Structured Type Constraint Declaration			
Constraint Name : Ca2_g04			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’00909090909090909090909 09090909090’O		bit map 0 format
Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 8, not in MA(2)			

Structured Type Constraint Declaration			
Constraint Name : Ca2_g05			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’09090909090909090909090 90909090900’O		bit map 0 format
Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 25, not in MA(2)			

Structured Type Constraint Declaration			
Constraint Name : Ca2_g06			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’0040C0C0C0E0C0C0C0C 0C0C0C0C0C012’O		bit map 0 format
Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 86, not in MA(2)			

Structured Type Constraint Declaration

Constraint Name : Ca2_g07
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00007F0000FF0000FF000 0000002003F’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 18, not in MA(2)

Structured Type Constraint Declaration

Constraint Name : Ca2_g08
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00020202021A1A1A1A1A 1A3A02020202’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 38, not in MA(2)

Structured Type Constraint Declaration

Constraint Name : Ca2_g09
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’0000000000000F0F0F0F0 00030F0F0F0’O		bit map 0 format

Detailed Comments : ca_pgsm(2) = 30, B_ARFCN = 58, not in MA(2)

Structured Type Constraint Declaration			
Constraint Name : Ca3_g01			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’00000000000000000000 00000E0F0F1’O		bit map 0 format
Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 16, not in MA(3)			

Structured Type Constraint Declaration			
Constraint Name : Ca3_g02			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’00010010100010120010 10001018080’O		bit map 0 format
Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 62, not in MA(3)			

Structured Type Constraint Declaration			
Constraint Name : Ca3_g03			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’00C0008000C000C000C0 00C000000010’O		bit map 0 format
Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 5, not in MA(3)			

Structured Type Constraint Declaration

Constraint Name : Ca3_g04
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00000000800181800001 80018001880’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 8, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca3_g05
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00000000020002400240 02401240024’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 25, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca3_g06
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00300300003000000030030 00003000000’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 86, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca3_g07
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’00101000100000080800080810128080’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 18, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca3_g08
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’0F0000000000003800000020000000F0’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 38, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca3_g09
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’008181000000004046000000000008181’O		bit map 0 format

Detailed Comments : ca_pgsm(3) = 12, B_ARFCN = 58, not in MA(3)

Structured Type Constraint Declaration

Constraint Name : Ca2_d01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F877FFFFFFC000000000 00000000000’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 782, B_ARFCN = 799, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca2_d02
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F5EFFFE01FE01E0001C 000000000000’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 701, B_ARFCN = 705, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca2_d03
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F5F7003FC03FC03FC00 600000000000’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 702, B_ARFCN = 718, not in MA

Structured Type Constraint Declaration			
Constraint Name : Ca2_d04			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’8F7070000F000FF545555 54000000000’O		variable bit map format
Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 736, B_ARFCN = 757, not in MA			

Structured Type Constraint Declaration			
Constraint Name : Ca2_d05			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’8F5F20A0A0AC0003FFFC 000040404040’O		variable bit map format
Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 702, B_ARFCN = 710, not in MA			

Structured Type Constraint Declaration			
Constraint Name : Ca2_d06			
Structured Type : CCHD			
Derivation Path :			
Encoding Variation :			
Comments : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’01100010’B		
rfl	’8F627F002022222222222 22202007E00’O		variable bit map format
Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 708, B_ARFCN = 742, not in MA			

Structured Type Constraint Declaration

Constraint Name : Ca2_d07
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F614ACACACACACACA C0000000000000’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 706, B_ARFCN = 734, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca2_d08
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F5E80A0A0A02809E808 001E81E81E00’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 701, B_ARFCN = 776, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca2_d09
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 30 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F627000F00078000C808 FA0A0202F00’O		variable bit map format

Detailed Comments : ca_dcs(2) = 30, Org_ARFCN = 708, B_ARFCN = 744, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’831DFC81FFBEC180BE7F F7FC08000000’O		Range 1024

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 784, B_ARFCN = 799, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d02
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8B5E837D17FFE105FFFF E00000000000’O		Range 256

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 701, B_ARFCN = 705, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d03
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’895E8A7A04FFFF163B2B FFFC00000000’O		Range 512

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 702, B_ARFCN = 718, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d04
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’830AF6037FBFC4C2BEF7 DDFC08000000’O		Range 1024

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 753, B_ARFCN = 757, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d05
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8B628B7B45CF02497EF7 000000000000’O		Range 256

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 709, B_ARFCN = 710, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d06
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’896593F981B37F241F0FB 6F800000000’O		Range 512

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 715, B_ARFCN = 742, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d07
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’82FDF084FCBE06843C78 FBE068000000’O		Range 1024

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 712, B_ARFCN = 734, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d08
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8B62233B162F0117FF7FA 00000000000’O		Range 256

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 708, B_ARFCN = 776, not in MA

Structured Type Constraint Declaration

Constraint Name : Ca3_d09
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : 12 ARFCNs for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’896308BC49BD781C33FE 3AFC00000000’O		Range 512

Detailed Comments : ca_dcs(3) = 12, Org_ARFCN = 710, B_ARFCN = 744, not in MA

Structured Type Constraint Declaration

Constraint Name : CallCntrlCap
Structured Type : CCCAP
Derivation Path :
Encoding Variation :
Comments : CC state 'st'

Element Name	Element Value	Element Encoding	Comments
iei	'00010101'B		
iel	'01'O		
spr	'0000000'B		spare bits '0000000'B
dtmf	TSPX_DTMF		indication of supporting DTMF

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CallState_01(st : INTEGER)
Structured Type : CST
Derivation Path :
Encoding Variation :
Comments : CC state 'st'

Element Name	Element Value	Element Encoding	Comments
cs	'11'B		GSM PLMNS standard
csv	INT_TO_BIT(st, 6)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_Def
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with any valid cause value, any valid location.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
extb3	’1’B		no extension
cs	’11’B		GSM coding
spb	’0’B		
location	(’0000’B, ’0001’B, ’0010’B, ’0011’B, ’0100’B, ’0101’B, ’0111’B, ’1010’B)		
extb3a	–		no octet 3a
rec	–		
extb4	?		no extension
cau_class	?		
cau_va	?		
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_01
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #16, location = user.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0000’B		user
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’001’B		normal event
cau_va	’0000’B		normal call clearing
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_01iei
Structured Type : CAU
Derivation Path : Cause_01.
Encoding Variation :
Comments : optional (IEI present) cause information element with cause value = #16, location = user.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_02
Structured Type : CAU
Derivation Path : Cause_01.
Encoding Variation :
Comments : cause value #97

Element Name	Element Value	Element Encoding	Comments
iel	?		
location	?		
extb4	?		
cau_class	’110’B		protocol error
cau_va	’0001’B		message type non−existent
cau_di	*		Diagnostics

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_03
Structured Type : CAU
Derivation Path : Cause_01.Cause_02.
Encoding Variation :
Comments : cause #98 −− message type not compatible with protocol state

Element Name	Element Value	Element Encoding	Comments
cau_va	’0010’B		type not compatible with state

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_04
Structured Type : CAU
Derivation Path : Cause_01.Cause_02.
Encoding Variation :
Comments : The cause value is #96 −− invalid mandatory information

Element Name	Element Value	Element Encoding	Comments
cau_va	’0000’B		invalid mandatory information

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_04iei
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : The cause value is #96 −− invalid mandatory information

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	?		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	?		
extb3a	−		no octet 3a
rec	−		
extb4	?		no extension
cau_class	’110’B		protocol error
cau_va	’0000’B		invalid mandatory information
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_06
Structured Type : CAU
Derivation Path : Cause_01.
Encoding Variation :
Comments : Cause information element containing arbitrary spare bits

Element Name	Element Value	Element Encoding	Comments
spb	’1’B		arbitrary spare bit
cau_class	’000’B		normal event
cau_va	’0001’B		unassigned number

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_07
Structured Type : CAU
Derivation Path : Cause_01.
Encoding Variation :
Comments : cause information element with cause value = #81.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	?		
location	?		
extb4	?		extension bit
cau_class	’101’B		invalid message
cau_va	’0001’B		invalid transaction identifier value
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_08
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : used as an unknown IE

Element Name	Element Value	Element Encoding	Comments
iei	’00100100’B		unknown IEI
iel	’01’O		length
extb3	’1’B		arbitrary contents
cs	’11’B		
spb	’1’B		
location	’1111’B		
extb3a	–		
rec	–		
extb4	–		
cau_class	–		
cau_va	–		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_09
Structured Type : CAU
Derivation Path : Cause_08.
Encoding Variation :
Comments : used as an unknown IE

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B		unknown IEI
iel	’01’O		length
extb3	’1’B		arbitrary content
cs	’11’B		
spb	’0’B		
location	’1110’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_10
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #1, location = user.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0000’B		user
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’000’B		normal event
cau_va	’0001’B		unallocated number
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_11
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #31.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0000’B		user
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’001’B		normal event
cau_va	’1111’B		normal call clearing
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_12
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #88.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’101’B		
cau_va	’1000’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_13
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #21.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’001’B		
cau_va	’0101’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_14
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #102.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	?		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	–		no octet 3a
rec	–		
extb4	?		
cau_class	’110’B		
cau_va	’0110’B		
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_15
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #47, n –> ms.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0010’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’010’B		
cau_va	’1111’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_16
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #58 bearer capability not presently available, n –> ms.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0010’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’011’B		
cau_va	’1010’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_17
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : optional (IEI present) cause information element with cause value = #17 user busy. ms −> n.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	?		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	−		because cs=’11’B
rec	−		because cs=’11’B
extb4	?		no extension
cau_class	’001’B		
cau_va	’0001’B		
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_18
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #30 response to status enquiry. ms −> n.

Element Name	Element Value	Element Encoding	Comments
iei	−		
iel	?		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	−		because cs=’11’B
rec	−		because cs=’11’B
extb4	?		no extension
cau_class	’001’B		
cau_va	’1110’B		
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_22
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #81.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’????’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’101’B		
cau_va	’0001’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_23
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #102.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0000’B		
extb3a	–		no octet 3a
rec	–		
extb4	’1’B		no extension
cau_class	’110’B		
cau_va	’0110’B		
cau_di	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_26
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #16, location = user. n−>ms

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0000’B		user
extb3a	−		no octet 3a
rec	−		
extb4	’1’B		no extension
cau_class	’001’B		normal event
cau_va	’0000’B		normal call clearing
cau_di	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_27
Structured Type : CAU
Derivation Path : Cause_26.
Encoding Variation :
Comments : cause value #88, ms−>n.

Element Name	Element Value	Element Encoding	Comments
iel	?		
location	?		
extb4	?		extension bit
cau_class	’101’B		invalid message
cau_va	’1000’B		Incompatible destination
cau_di	*		Diagnostics

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_28
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #29 ’facility rejected’, n −> ms.

Element Name	Element Value	Element Encoding	Comments
iei	’00001000’B		
iel	’02’O		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	’0010’B		
extb3a	−		no octet 3a
rec	−		
extb4	’1’B		no extension
cau_class	’001’B		
cau_va	’1101’B		
cau_di	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cause_68
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : cause information element with cause value = #68 "ACM equal to or greater than ACMmax". ms−>n.

Element Name	Element Value	Element Encoding	Comments
iei	−		
iel	?		
extb3	’1’B		no extension
cs	’11’B		standard coding
spb	’0’B		
location	(’0000’B, ’0001’B, ’0010’B, ’0011’B, ’0100’B, ’0101’B, ’0111’B, ’1010’B)		
extb3a	−		no octet 3a
rec	−		
extb4	’1’B		no extension
cau_class	’100’B		
cau_va	’0100’B		
cau_di	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cdpn_01
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01011110’B		’01011110’B
iel	’02’O		
tonnpi	TonNpi_02		Type of number and numbering plan
digits	’01’O		BCD numbers

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cdps_01
Structured Type : CDPS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01101101’B		’01101101’B
iel	’03’O		
subad	SubAdd_01		Subaddress

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_Omit
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Omit descriptor

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : ARFCN = 124

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’38000000000000000000 00000000000’O		spare bits = ’11’B

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_01d
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : ARFCN = 801

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’BF9080000000000000000 00000000000’O		spare bits = ’11’B

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_02
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={20,30,50,70}.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’00000000000002000020 00020080000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_03
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of DCS1800 with the ARFCN list = {590, 650, 750, 850}..

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'89272827190000000000 00000000000'O		ARFCNs : 590, 650, 750, 850 512 range

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_04
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell B in RR testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'00000000000000000000 00000000200'O		ARFCNs : 10

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_05
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N1 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000000080'O		ARFCNs : 8

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_05d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N1 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	'82120000000000000000 00000000000'O		ARFCNs : 530 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_06
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N2 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000002000'O		ARFCNs : 14

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_06d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N2 in measurement testing of DCS.

Element Name	Element Value	Element Encoding	Comments
rfl	'825A00000000000000000 00000000000'O		ARFCNs : 602 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_07
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N3 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	’00000000000000000000 00000080000’O		ARFCNs : 20

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_07d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N3 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	’82990000000000000000 00000000000’O		ARFCNs : 665 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_08
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N4 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	’00000000000000000000 00002000000’O		ARFCNs : 26

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_08d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N4 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	'82FA00000000000000000 00000000000'O		ARFCNs : 762 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_09
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N5 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00080000000'O		ARFCNs : 32

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_09d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N5 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	'82AE00000000000000000 00000000000'O		ARFCNs : 686 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_10
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N6 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	’00000000000000000000 02000000000’O		ARFCNs : 38

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_10d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N6 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	’82250000000000000000 00000000000’O		ARFCNs : 549 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_11
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N7 in measurement testing of GSM 900.

Element Name	Element Value	Element Encoding	Comments
rfl	’00000000000000000000 80000000000’O		ARFCNs : 44

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_11d
Structured Type : CCHD
Derivation Path : CellChDes_04.
Encoding Variation :
Comments : for cell N7 in measurement testing of DCS1800.

Element Name	Element Value	Element Encoding	Comments
rfl	'832A00000000000000000 00000000000'O		ARFCNs : 810 , 1024 range format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_12
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : bit map o format

Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'00000000000000000020 00020000000'O		ARFCN 30 and 50

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_12d
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : variable bit map format

Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'8F4500000000000000000 00000001000'O		ARFCN 650 and 750

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_12man
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : bit map o format

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’00000000000000000000200002000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_12dman
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : variable bit map format

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’8F4500000000000000000000000000001000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_15
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of GSM 900 with ARFCN_list={10,17,20,26,34,42,45,46,52,59}

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’0000000000000000408320202090200’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_15d
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of DCS with the ARFCN_list={734,741,747,754,759,766,773,775,779,782}

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'8D6F20D0DCF0A3AE000 0000000000000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_19
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Frequency list for EGSM test case TC_26_10_2_2: 0, 30, 40, 66, 80, 1005, 1010, 1015.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'841EEA893EF9814380000 00000000000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_A
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : Cell Channel Description for cell A in RR testing of GSM 900 HO cases with the ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
rfl	'0002080000000F0204083 20202090200'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_Aman
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for any cell in RR testing of GSM 900 HO cases with the ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'0002080000000F0204083 20202090200'O		bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_201_Ad
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for cell A in RR testing of DCS1800 HO cases with the ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} using 256 format.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'8B6F14F32FC602C59EFF A54999400000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_202_Ad
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : Cell Channel Description for cell A in RR testing of DCS1800 HO cases with the Complete Cell Allocation of Cell A in 512 format. ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} using 512 format.

Element Name	Element Value	Element Encoding	Comments
rfl	'896F0A7CC5FC700A8B9F 7FF452463340'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_203_Ad
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for cell A in TC_26_6_13 with the ARFCN_list={737,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} using 256 format.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'8B7093732FC602C59EFFA54999400000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_203_Adiei
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : Cell Channel Description for cell A in TC_26_6_13 with the ARFCN_list={737,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}using 256 format.

Element Name	Element Value	Element Encoding	Comments
rfl	'8B7093732FC602C59EFFA54999400000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_202_Adman
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for cell A in RR testing of DCS1800 HO cases with the Complete Cell Allocation of Cell A in HO cases using 512 format. ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'896F0A7CC5FC700A8B9F7FF452463340'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_B
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : for cell B in RR testing of GSM 900 HO cases with the complete Cell Allocation ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
rfl	’0002080000000F0208000 0A060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_Bman
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell B in RR testing of GSM 900 HO cases with the complete Cell Allocation ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’0002080000000F0208000 0A060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_Be(par_rfl : OCTETSTRING)
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell B in RR testing of EGSM HO cases with the complete Cell Allocation ARFCN_list={par_rfl}.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	par_rfl		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_201_Bd
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for cell B in RR testing of DCS1800 HO cases with the ARFCN_list={739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 256 format.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'8B71907137B602C5DEF7A348D8000000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_202_Bd
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : Cell Channel Description for cell B in RR testing of DCS1800 HO cases with the ARFCN_list={739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 512 format.

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'8971883C46FB700A8BDF7DF432433000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_201_Bdiei
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : Cell Channel Description for cell B in RR testing of DCS1800 HO cases with the ARFCN_list={739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 256 format.

Element Name	Element Value	Element Encoding	Comments
rfl	'8B71907137B602C5DEF7A348D8000000'O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_20_B0d
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : the complete Cell Allocation List_ARFCN= complete cell allocation of cell B in HO cases. {739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F7189205240809008100 00000240040’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_21_B
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : for any cell in RR testing of GSM 900 HO cases with the ARFCN_list={40,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
rfl	’0002080000000F0200000 08000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_21_Bd
Structured Type : CCHD
Derivation Path : CellChDes_01.
Encoding Variation :
Comments : for cell B in RR testing of GSM 900 HO cases with the List_ARFCN={761,764,771,779,782,791,798,829,832}

Element Name	Element Value	Element Encoding	Comments
rfl	’897C87BD09BC61060F90 000000000000’O		512 range

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_22
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in EGSM testing: 20, 30, 50, 70

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’00000000000000200002000020080000’O		Format:Bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_23A
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in EGSM testing, TC_26_10_2_4_1 : 20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’0002080000007F020000008000080000’O		Format:Bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_23B
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in EGSM testing, TC_26_10_2_4_1 : 10, 12, 40, 60, 62, 63

Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	’00000000000000000680000800000A00’O		Format:Bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_24
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : ARFCN 520: range 512 format

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8900000000000000000000 00000000000’O		ARFCN 520: Range 512 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_r01
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of DCS1800 with the ARFCN_list={773, 775, 779, 782, 791, 798, 829, 832, 844}.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8D8299C22EF52CC00000 000000000000’O		range 128 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_r02
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={741, 747}.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’8F7282000000000000000 00000000000’O		variable bit map format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_r03
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114}.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’0002080000000F0204083 00000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellChDes_r04
Structured Type : CCHD
Derivation Path :
Encoding Variation :
Comments : for cell A in RR testing of GSM 900 with the ARFCN_list={17, 20}.

Element Name	Element Value	Element Encoding	Comments
iei	’01100010’B		
rfl	’000000000000000000000 00000090000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellDescrp(ncc1, bcc1 : B_3; par_arfcn: INTEGER)
Structured Type : CD
Derivation Path :
Encoding Variation :
Comments : BCCH channel for Cell A

Element Name	Element Value	Element Encoding	Comments
bcch_arfcn_h	OC_MostBits(INT_TO_BIT(par_arfcn, 10), 2)		bcch arfcn high part
ncc	ncc1		PLMN colour code
bcc	bcc1		BS colour code
bcch_arfcn_l	OC_LeastBits(INT_TO_BIT(par_arfcn, 10), 8)		bcch arfcn low part

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_01
Structured Type : CO
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		
pwrc	’0’B		power control indicator not set
dtx	’10’B		MS shall not use uplink discontinuous transmission.
rlt	’0001’B		radio link timeout, 8 SACCH blocks

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_02
Structured Type : CO
Derivation Path :
Encoding Variation :
Comments : parameters from 26.3.1 of GSM 11.10

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		
pwrc	’0’B		power control indicator not set
dtx	’10’B		MS shall not use uplink discontinuous transmission.
rlt	’0101’B		radio link timeout, 10 SACCH blocks

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_03
Structured Type : CO
Derivation Path :
Encoding Variation :
Comments : used in measurement testing

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		
pwrc	’1’B		power control indicator is set
dtx	’01’B		MS shall use uplink discontinuous transmission.
rlt	’0001’B		radio link timeout, 8 SACCH blocks

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_04
Structured Type : CO
Derivation Path :
Encoding Variation :
Comments : spare bit is set to ’1’B

Element Name	Element Value	Element Encoding	Comments
sprb	’1’B		
pwrc	’0’B		power control indicator not set
dtx	’10’B		MS shall not use uplink discontinuous transmission.
rlt	’0001’B		radio link timeout, 8 SACCH blocks

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_05
Structured Type : CO
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		
pwrc	’0’B		power control indicator not set
dtx	’10’B		MS shall not use uplink discontinuous transmission.
rlt	’1111’B		radio link timeout

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellOpt_06
Structured Type : CO
Derivation Path : CellOpt_04.
Encoding Variation :
Comments : spare bit is set to ’1’B

Element Name	Element Value	Element Encoding	Comments
pwrc	’1’B		power control indicator is set

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellSelPara(crh, mtmc : INTEGER; neci : B_1)
Structured Type : CSP
Derivation Path :
Encoding Variation :
Comments : Default value.

Element Name	Element Value	Element Encoding	Comments
crh	INT_TO_BIT(crh, 3)		
mtmc	INT_TO_BIT(mtmc, 5)		
acs	’0’B		no addtional cell parameters are presented in SI msg 7 and 8
neci	neci		new establishment causes are not supported
ram	’000000’B		minimum

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellSelPara_01
Structured Type : CSP
Derivation Path :
Encoding Variation :
Comments : Default value for GSM900.

Element Name	Element Value	Element Encoding	Comments
crh	’110’B		12 db
mtmc	’10011’B		minimum for GSM900 is 19
acs	’0’B		no addtional cell parameters are presented in SI msg 7 and 8
neci	’0’B		new establishment causes are not supported
ram	’000000’B		minimum

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CellSelPara_04
Structured Type : CSP
Derivation Path : CellSelPara_01.
Encoding Variation :
Comments : Default value for DCS1800.

Element Name	Element Value	Element Encoding	Comments
mtmc	’01111’B		minimum for DSC1800 is 15

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cgpn_01
Structured Type : CGPN
Derivation Path :
Encoding Variation :
Comments : calling party BCD number with arbitrary spare bits

Element Name	Element Value	Element Encoding	Comments
iei	’01011100’B		’01011100’B
iel	’03’O		
tonnpi	TonNpi_01		Type of number and numbering plan
pisi	PiSi_01		containing arbitrary bits
digits	’01’O		BCD numbers

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Cgps_01
Structured Type : CGPS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01011101’B		’01011101’B
iel	’03’O		
subad	SubAdd_01		Subaddress

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_nfh(type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for CC testing, non hopping, no starting time.

Element Name	Element Value	Element Encoding	Comments
iei	–		
cht_schn	type		channel type and TDMA offset
tn	slot		Time slot
tsc	tsc		training sequence code
hch	’0’B		
maio	–		
hsn	–		
spr	’00’B		
arfcn	INT_TO_BIT(par_arfcn, 10)		ARFCN

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_nfhiei(type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for CC testing, non hopping, no starting time, with iei.

Element Name	Element Value	Element Encoding	Comments
iei	’01100100’B		
cht_schn	type		channel type and TDMA offset
tn	slot		Time slot
tsc	tsc		training sequence code
hch	’0’B		
maio	–		
hsn	–		
spr	’00’B		
arfcn	INT_TO_BIT(par_arfcn, 10)		ARFCN

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_fh(par_chtype: CH_TDMA; ts_ccch: SN; tsc : TSC; maio : MAIO; hsn : HSN)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : A derived constraint for <<Channel description >>ie with TCH/F freq. hopping in any CELL.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	par_chtype		
tn	ts_ccch		
tsc	tsc		
hch	’1’B		hopping
maio	maio		
hsn	hsn		
spr	–		not used
arfcn	–		not used

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_fhiei(par_chtype: CH_TDMA; ts_ccch: SN; tsc : TSC; maio : MAIO; hsn : HSN)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : A derived constraint for <<Channel description >>ie with TCH/F freq. hopping in any CELL.

Element Name	Element Value	Element Encoding	Comments
iei	’00011100’B		
cht_schn	par_chtype		channel type with TDMA
tn	ts_ccch		timeslot from PIXIT
tsc	tsc		training sequence code from PIXIT
hch	’1’B		hopping
maio	maio		maio from pixit, used in HO cases.
hsn	hsn		hsn from pixit, used in HO cases.
spr	–		not used
arfcn	–		not used

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_sdcch8_fh(slot : SN; tsc : TSC; sch : B_3; maio : MAIO; hsn : HSN)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for SDCCH8.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	INT_TO_BIT((8 + BIT_TO_INT(sch)), 5)		
tn	slot		
tsc	tsc		
hch	’1’B		hopping
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_sdcch8_nfh(slot : SN; tsc : TSC; subch : B_3; arfcn : INTEGER)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for SDCCH8 in cell A for RR test.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	INT_TO_BIT((8 + BIT_TO_INT(subch)), 5)		
tn	slot		
tsc	tsc		
hch	’0’B		non hopping
maio	–		
hsn	–		
spr	’00’B		
arfcn	INT_TO_BIT(arfcn, 10)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChDescrp_tchf_fh(slot : SN; tsc : TSC; maio : MAIO; hsn : HSN)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for TCH/F in cell A for RR test.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	’00001’B		TCH/F
tn	slot		
tsc	tsc		
hch	’1’B		hopping
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		

Detailed Comments : Used in TC_26_6_4_1 only

Structured Type Constraint Declaration

Constraint Name : ChDescrp_tchh_fh(slot : SN; tsc : TSC; subch : B_1; maio : MAIO; hsn : HSN)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for TCH/H in cell A for RR test.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	INT_TO_BIT((2 + BIT_TO_INT(subch)), 5)		TCH/H
tn	slot		
tsc	tsc		
hch	’1’B		hopping
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		

Detailed Comments : Used in TC_26_6_4_1 only

Structured Type Constraint Declaration

Constraint Name : ChDescrp_tchh_nfh(slot : SN; tsc : TSC; subch : B_1; arfcn : INTEGER)
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : Channel description for TCH/F in cell A for RR test.

Element Name	Element Value	Element Encoding	Comments
iei	–		’01100100’B
cht_schn	INT_TO_BIT((2 + BIT_TO_INT(subch)), 5)		TCH/H
tn	slot		
tsc	tsc		
hch	’0’B		non hopping
maio	–		
hsn	–		
spr	’00’B		
arfcn	INT_TO_BIT(arfcn, 10)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod(mode : B_8)
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	mode		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_iei(mode : B_8)
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01100011’B		
mode	mode		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r01
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : for TC_26_6_13_1 after time

Element Name	Element Value	Element Encoding	Comments
iei	’01100011’B		
mode	TSPX_ChMod1		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r02
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : for TC_26_6_13_2 after time

Element Name	Element Value	Element Encoding	Comments
iei	’01100011’B		
mode	TSPX_ChMod2		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r03
Structured Type : CHMOD
Derivation Path : ChMod_r01.
Encoding Variation :
Comments : for TC_26_6_13_5

Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod4		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r04
Structured Type : CHMOD
Derivation Path : ChMod_r01.
Encoding Variation :
Comments : for TC_26_6_13_6

Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod5		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r05
Structured Type : CHMOD
Derivation Path : ChMod_r01.
Encoding Variation :
Comments : for TC_26_6_13_7

Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod6		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_r06
Structured Type : CHMOD
Derivation Path : ChMod_r01.
Encoding Variation :
Comments : for TC_26_6_13_8

Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod7		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_sign
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : signalling only

Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	C_ChMod_s		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_sign_iei
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : signalling only

Element Name	Element Value	Element Encoding	Comments
iei	’01100011’B		
mode	C_ChMod_s		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_speech
Structured Type : CHMOD
Derivation Path : ChMod_sign.
Encoding Variation :
Comments : speech full or half rate.

Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_r		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_speech_iei
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : speech full or half rate.

Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	C_ChMod_r		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_12k
Structured Type : CHMOD
Derivation Path : ChMod_sign.
Encoding Variation :
Comments : data 9.6 kb/s full rate, (12.0 kb/s air interface)

Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_12k		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_6k
Structured Type : CHMOD
Derivation Path : ChMod_sign.
Encoding Variation :
Comments : data 4.8 kb/s full rate, (6.0 kb/s air interface)

Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_6k		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_3k
Structured Type : CHMOD
Derivation Path : ChMod_sign.
Encoding Variation :
Comments : data 2.4 kb/s full rate, (3.6 kb/s air interface)

Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_3k		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_rcv
Structured Type : CHMOD
Derivation Path : ChMod_sign.
Encoding Variation :
Comments : used only in the OM_ChConf operation,

Element Name	Element Value	Element Encoding	Comments
mode	’11111111’B		receiving only

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ChMod_omit
Structured Type : CHMOD
Derivation Path :
Encoding Variation :
Comments : parametrised mode.

Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Chneed_01
Structured Type : CHNEED
Derivation Path :
Encoding Variation :
Comments : any channel

Element Name	Element Value	Element Encoding	Comments
ch2	’00’B		
ch1	’00’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Chneed_02
Structured Type : CHNEED
Derivation Path :
Encoding Variation :
Comments : SDCCH channel needed.

Element Name	Element Value	Element Encoding	Comments
ch2	’00’B		
ch1	’01’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Chneed_03
Structured Type : CHNEED
Derivation Path :
Encoding Variation :
Comments : TCH/F channel needed.

Element Name	Element Value	Element Encoding	Comments
ch2	’00’B		
ch1	’10’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Chneed_04
Structured Type : CHNEED
Derivation Path :
Encoding Variation :
Comments : Dual rate channel needed.

Element Name	Element Value	Element Encoding	Comments
ch2	’00’B		
ch1	’11’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CiphRes_01
Structured Type : CPH_RES
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	’000’B		spare bits
cr	’0’B		IMEISV not included

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CiphRes_02
Structured Type : CPH_RES
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	’000’B		spare bits
cr	’1’B		IMEISV shall be included

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ClassMark1
Structured Type : MSCLM1
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
spr1	’0’B		spare bit ’0’B
rl	TSPX_RevLevel		revision level
spr2	TSPX_ESIND		Controlled early CM Sending
a5_1	TSPX_CiphAlgA5_1		a5/1 algorithm supported
rfpc	TSPX_RfPwrCap		rf power capability

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ClassMark2
Structured Type : MSCLM2
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iel	’03’O		length
spr1	’0’B		spare bit ’0’B
rl	TSPX_RevLevel		revision level
spr2	TSPX_ESIND		Controlled early CM Sending
a5_1	TSPX_CiphAlgA5_1		a5/1 algorithm supported
rfpc	TSPX_RfPwrCap		rf power capability
spr3	’0’B		spare bit ’0’B
psc	TSPX_pSyncCap		pseudo synchronisation capability
sssi	TSPX_SSscrnInd		SS screen indicator
smc	TSPX_SMCap		short message capability
spr4	’00’B		spare bit ’00’B
fc	TSPX_frqCap		frequency capability
cm3	TSPX_ClsMk3		classmark 3 indicator
spr5	’00000’B		spare bit ’00000’B
a5_3	TSPX_CiphAlgA5_3		a5/3 algorithm supported
a5_2	TSPX_CiphAlgA5_2		a5/2 algorithm supported

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ClassMark2Amp
Structured Type : MSCLM2
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iel	’03’O		length
spr1	’0’B		spare bit ’0’B
rl	TSPX_RevLevel		revision level
spr2	TSPX_ESIND		Controlled early CM Sending
a5_1	TSPX_CiphAlgA5_1		a5/1 algorithm supported
rfpc	TSPX_RfPwrCapAmp		rf power capability
spr3	’0’B		spare bit ’0’B
psc	TSPX_pSyncCap		pseudo synchronisation capability
sssi	TSPX_SSscrnInd		SS screen indicator
smc	TSPX_SMCap		short message capability
spr4	’00’B		spare bit ’00’B
fc	TSPX_frqCap		frequency capability
cm3	TSPX_ClsMk3		classmark 3 indicator
spr5	’00000’B		spare bit ’00000’B
a5_3	TSPX_CiphAlgA5_3		a5/3 algorithm supported
a5_2	TSPX_CiphAlgA5_2		a5/2 algorithm supported

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ClassMark3
Structured Type : MSCLM3
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’00100000’B		
iel	(’01’O, ’02’O, ’03’O, ’04’O, ’05’O, ’06’O, ’07’O, ’08’O, ’09’O, ’0A’O, ’0B’O, ’0C’O)		length
spr1	’0???’B		spare bits
a5_7	TSPX_CiphAlgA5_7		a5/7 algorithm supported
a5_6	TSPX_CiphAlgA5_6		a5/6 algorithm supported
a5_5	TSPX_CiphAlgA5_5		a5/5 algorithm supported
a5_4	TSPX_CiphAlgA5_4		a5/4 algorithm supported
spr2	*		spare

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CntrlChDscrp_inv
Structured Type : CCD
Derivation Path :
Encoding Variation :
Comments : One CCCH combined with SDCCH and attach/detach not allowed. Some spare bits are set to ’1’B

Element Name	Element Value	Element Encoding	Comments
spr1	’1’B		
att	’0’B		ATT = 0, attach/detach not allowed
babr	’000’B		no reserved grant block
ccch_con	’001’B		one CCCH combined with SDCCH
spr2	’01100’B		
bpm	’011’B		5 multiframe periods
t3212	’00’O		infinite

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CntrlChDscrp(att: INTEGER; babr, cch_con, bpm : B_3; timer : OCTETSTRING)
Structured Type : CCD
Derivation Path :
Encoding Variation :
Comments : Generic Control channel descriptor.

Element Name	Element Value	Element Encoding	Comments
spr1	’0’B		
att	INT_TO_BIT(att,1)		
babr	babr		
ccch_con	cch_con		
spr2	’00000’B		
bpm	bpm		
t3212	timer		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphKeySN_01(cksn : B_3)
Structured Type : CPHKSN
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		spare bit ’0’B
ks	cksn		default key sequence number

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphKeySN_02
Structured Type : CPHKSN
Derivation Path :
Encoding Variation :
Comments : An invalid ciphering key sequence number containing spare bit set to ’1’B.

Element Name	Element Value	Element Encoding	Comments
sprb	’1’B		spare bit
ks	’000’B		key sequence

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphKeySN_06
Structured Type : CPHKSN
Derivation Path :
Encoding Variation :
Comments : ciphering key sequence number no key.

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		spare bit ’0’B
ks	’111’B		no key

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphKeySN_07(par: BITSTRING)
Structured Type : CPHKSN
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb	’0’B		spare bit ’0’B
ks	par		default key sequence number

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_omit
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	–		
sc	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_01
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	TSPX_CphAlgDef		algorithm identifier
sc	’1’B		starting ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_02
Structured Type : CPHMS
Derivation Path : CphMod_01.
Encoding Variation :
Comments : No ciphering

Element Name	Element Value	Element Encoding	Comments
sc	’0’B		no ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_02iei
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments : No ciphering

Element Name	Element Value	Element Encoding	Comments
iei	’1001’B		
algid	TSPX_CphAlgDef		algorithm identifier
sc	’0’B		no ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_03
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	’000’B		algorithm A5/1
sc	’1’B		starting ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_04(alg : BITSTRING)
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments : starting ciphering with the ciphering algorithm ‘alg‘.

Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	alg		algorithm identifier
sc	’1’B		starting ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CphMod_04iei(alg : BITSTRING)
Structured Type : CPHMS
Derivation Path :
Encoding Variation :
Comments : starting ciphering with the ciphering algorithm ‘alg‘.

Element Name	Element Value	Element Encoding	Comments
iei	’1001’B		
algid	alg		algorithm identifier
sc	’1’B		starting ciphering

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : facilityIErcv(comp : Component)
Structured Type : FIE
Derivation Path :
Encoding Variation :
Comments : A received FIE may contain several components, but at least contains "comp".

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
components_1	Comps_01(comp)		
components_t	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : facilityIErcviei(comp : Component)
Structured Type : FIE
Derivation Path :
Encoding Variation :
Comments : A received FIE may contain several components, but at least contains "comp".

Element Name	Element Value	Element Encoding	Comments
iei	’00011100’B		
iel	?		
components_1	Comps_01(comp)		
components_t	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : facilityIEtsnd(comp : Component_T)
Structured Type : FIE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_LengthOfComp(comp)		
components_1	–		
components_t	comp		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : facilityIEtsndiei(comp : Component_T)
Structured Type : FIE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’00011100’B		
iel	OC_LengthOfComp(comp)		
components_1	–		
components_t	comp		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Fn_01
Structured Type : FN
Derivation Path :
Encoding Variation :
Comments : not pertaining to the MS under test

Element Name	Element Value	Element Encoding	Comments
t1_	’00000’B		
t3	’000000’B		
t2	’00000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqBCCH(arfcn : INTEGER)
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Broadcast channel.

Element Name	Element Value	Element Encoding	Comments
hch	’0’B		non hopping
maio	−		mobile allocation index offset − hopping, if hch = 1, otherwise −
hsn	−		hopping sequence number − hopping, if hch = 1, otherwise −
spr	’00’B		’00’B − non hopping, if hch = 0, otherwise −
arfcn	INT_TO_BIT(arfcn, 10)		ARFCN
maclength	’00’O		’00’O for non hopping
mac_8n	−		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	−		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_omit
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	−		
larfcn	−		
incs	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_01
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the f_list={40,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’28’O		
incs	’0B71110026000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_02
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={14,18,22,24,30,31,38,40,66,73,74,75, 76,108}
cross reference: Frql_20_B72

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’0E’O		
incs	’44261720B7111002’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_03
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={14,114}

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’0E’O		
incs	’000000A000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_04
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={40,114}

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’28’O		
incs	’0000E00000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_05
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={66, 75, 76, 108}

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’42’O		
incs	’9100200000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_06
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114} see Frql_20_B5

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’0E’O		
incs	’442617FD71110026’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freqchseq_22
Structured Type : FRQCHS
Derivation Path :
Encoding Variation :
Comments : Frequency channel sequence with the List_ARFCN={10,17,20,26,59,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
larfcn	’0A’O		
incs	’7360037711100260’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCH(arfcn : INTEGER)
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Default Traffic channel non frequency hopping

Element Name	Element Value	Element Encoding	Comments
hch	’0’B		non hopping
maio	–		
hsn	–		
spr	’00’B		’00’B for no hopping
arfcn	INT_TO_BIT(arfcn, 10)		ARFCN
maclength	’00’O		’00’O for non hopping
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCH_omit
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Omitted FRQPARA when not needed in parameters list.

Element Name	Element Value	Element Encoding	Comments
hch	–		
maio	–		
hsn	–		
spr	–		
arfcn	–		
maclength	–		
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, ARFCN = 124 hopping, for GSM900.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000000’B		mobile allocation index offset
hsn	’111111’B		hopping sequence number
spr	−		
arfcn	−		
maclength	’01’O		’01’O hopping
mac_8n	’00000001’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_04		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa2
Structured Type : FRQPARA
Derivation Path : FreqTCHa1.
Encoding Variation :
Comments : Traffic channel for cell A, ARFCN = 801 hopping, for DCS1800

Element Name	Element Value	Element Encoding	Comments
flst	Frql_05		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000001’B		mobile allocation index offset
hsn	’000001’B		hopping sequence number
spr	−		
arfcn	−		
maclength	’02’O		’01’O hopping
mac_8n	’00000011’B		mac64 − mac57
mac_7n	’11111011’B		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_10		10, 17, 20, 26, 34, 42, 45, 46, 52, 59

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa4
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, DCS1800 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		mobile allocation index offset 0
hsn	’101000’B		hopping sequence number 40
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’00000001’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_15		ARFCNS : 741, 747

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa5
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000101’B		mobile allocation index offset 5
hsn	’000000’B		hopping sequence number 0
spr	−		
arfcn	−		
maclength	’01’O		hopping
mac_8n	’01111111’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_09		ARFCNs: 734, 741, 759, 766, 773, 832, 844

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa6
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000011’B		mobile allocation index offset 3
hsn	’001000’B		hopping sequence number 8
spr	−		
arfcn	−		
maclength	’02’O		’02’O hopping
mac_8n	’00000001’B		mac64 − mac57
mac_7n	’11000111’B		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_14		ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa7
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000011’B		mobile allocation index offset 3
hsn	’001000’B		hopping sequence number 8
spr	−		
arfcn	−		
maclength	’02’O		’02’O hopping
mac_8n	’00000111’B		mac64 − mac57
mac_7n	’11100011’B		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_11		45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa8
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, DCS1800 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000001’B		mobile allocation index offset
hsn	’000001’B		hopping sequence number
spr	−		
arfcn	−		
maclength	’02’O		’01’O hopping
mac_8n	’00000011’B		mac64 − mac57
mac_7n	’11111011’B		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_13		734, 741, 747, 754, 759, 766, 773, 775, 779, 782

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa9
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		normal hopping
maio	’000101’B		mobile allocation index offset 5
hsn	’000000’B		hopping sequence number 0
spr	−		
arfcn	−		
maclength	’01’O		hopping
mac_8n	’00111111’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_08		ARFCNs: 10, 34, 52, 73, 108, 114

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa10
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Traffic channel for cell A, hopping, GSM900 for TC_26_6_4_1

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		mobile allocation index offset 0
hsn	’101000’B		hopping sequence number 40
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’00000001’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_12		ARFCNS : 17, 20

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_21g
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : GSM 900 traffic channel of cell A, hopping for TC_26_5_6_3.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		mobile allocation index offset − hopping, if hch = 1, otherwise −
hsn	’000000’B		hopping sequence number
spr	−		’00’B − non hopping, if hch = 0, otherwise −
arfcn	−		
maclength	’01’O		’00’O for non hopping
mac_8n	’00000010’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_38		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_21d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : DCS 1800 traffic channel of cell A, hopping for TC_26_5_6_3.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		mobile allocation index offset − hopping, if hch = 1, otherwise −
hsn	’000000’B		hopping sequence number − hopping, if hch = 1, otherwise −
spr	−		’00’B − non hopping, if hch = 0, otherwise −
arfcn	−		
maclength	’01’O		’00’O for non hopping
mac_8n	’00000010’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_38d		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCH_ef1(par_ma: BITSTRING; par_freqlist: OCTETSTRING; par_flistl: LENGTH; n :INTEGER)
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Broadcast channel of cell A for EGSM.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD n), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’01’O		
mac_8n	par_ma		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		mac
flst	Frql_20_egsm(par_freqlist, par_flistl)		frequency list, after time for cell A

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCH_ef2(par_ma1: BITSTRING;par_ma2: BITSTRING; par_freqlist: OCTETSTRING; par_flistl: LENGTH; n :INTEGER)

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : Broadcast channel of cell A for EGSM.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD n), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	par_ma2		
mac_7n	par_ma1		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_egsm(par_freqlist, par_flistl)		frequency list, after time for cell A

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping traffic channel of cell A for GSM.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 12), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’00001111’B		(75,76,108,114)
mac_7n	’11111111’B		(10,17,20,26,59,66,73,74)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A		{10,17,20,26,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof1d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping channel of cell A for DCS1800

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 9), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’00000001’B		(844)
mac_7n	’11111111’B		(747, 775, 779, 782, 791, 798, 829, 832)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_Ad		{747, 775, 779, 782, 791, 798, 829, 832, 844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof2
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping full rate channel of cell A, but only one frequency (114) for GSM.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		
hsn	’000000’B		
spr	–		
arfcn	–		
maclength	’03’O		’00’O for non hopping
mac_8n	’00000001’B		(114)
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof2d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping full rate channel of cell A but only one frequency (844) for DCS.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	’000000’B		
hsn	’000000’B		
spr	–		
arfcn	–		
maclength	’03’O		’00’O for non hopping
mac_8n	’00000001’B		(844)
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0d		{734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof3

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : a hopping channel of cell A with hopping frequencies : {10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 17), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000001’B		(114)
mac_7n	’11111111’B		(52,59,66,73,74,75,76,108)
mac_6n	’11111111’B		(10,17,20,26,34,42,45,46)
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof3d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping channel of cell A. Indicating complete Cell Allocation of Cell A (DCS)

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 17), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’03’O		
mac_8n	’00000001’B		(844)
mac_7n	’11111111’B		(773,775,779,782,791,798, 829,832)
mac_6n	’11111111’B		(734,741,747,754,759,762, 766,767)
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_A0d		{734,741,747,754,759,762, 766,767,773,775,779,782,7 91,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof4
Structured Type : FRQPARA
Derivation Path : FreqTCHa_hof3.
Encoding Variation :
Comments : a hopping channel of cell A with hopping frequencies : {10, 17, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114}

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(C_HSN_0, 6)		
mac_6n	’11111011’B		(10,17,26,34,42,45,46)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHa_hof4d
Structured Type : FRQPARA
Derivation Path : FreqTCHa_hof3d.
Encoding Variation :
Comments : a hopping channel of cell A. Indicating complete Cell Allocation of Cell A (DCS) {734,741,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT((TSPX_MAIO MOD 17), 6)		
hsn	INT_TO_BIT(C_HSN_0, 6)		
mac_6n	'11111011'B		(734,741,754,759,762,766, 767)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Broadcast channel of cell B.

Element Name	Element Value	Element Encoding	Comments
hch	'1'B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 12), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	'02'O		
mac_8n	'00001111'B		(75,76,108,114)
mac_7n	'11111111'B		(14,18,22,24,60,66,73,74)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B3		{14,18,22,24,60,66,73,74,7 5,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof1d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Broadcast channel of cell B for hopping DCS1800

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 12), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’00001111’B		(798, 829, 832, 844)
mac_7n	’11111111’B		(749, 758, 761, 764, 771, 779, 782, 791)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B3d		{749, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof2
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping traffic channel

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 8), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’11111111’B		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B4		frequency list, after time for cell B

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof2d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : Broadcast channel of cell B for hopping DCS1800

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 8), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’01’O		
mac_8n	’11111111’B		(764, 779, 782, 791, 798, 829, 832, 844)
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B4d		{764, 779, 782, 791, 798, 829, 832, 844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’01111111’B		(66, 73, 74, 75, 76, 108, 114)
mac_7n	’11111111’B		(14, 18, 22, 24, 30, 31, 38, 53)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B5		frequency list, after time for cell B {14,18,22,24,30,31,38,53,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof3d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 11), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’00000111’B		(829,832,844)
mac_7n	’11111111’B		(756,758,761,771,779,782, 791,798)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B5d		frequency list, after time for cell B (756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof4
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’00011100’B		{73, 74, 75}
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B4		frequency list, after time for cell B {40,66,73,74,75,76,108,114} bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof4d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : TC_26_6_5_2_2

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’00000000’B		mac64 − mac57
mac_7n	’11100000’B		(791, 798, 829)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B6d		{761,764,771,779,782,791, 798,829,832} range 512

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof5
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : full rate hopping channel of cell B for GSM

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 5), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’01’O		
mac_8n	’10100111’B		(14,18,22,31,40)
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof5d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a full rate hopping channel of cell B for DCS

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 9), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’00000001’B		(844)
mac_7n	’11111111’B		(746,749,756,761,764,798, 829,832)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B9d		{746,749,756,761,764,798, 829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof6
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 2), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’10000000’B		(114)
mac_7n	’00000001’B		(14)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof6d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	’000000’B		
spr	–		
arfcn	–		
maclength	’02’O		’00’O for non hopping
mac_8n	’00000110’B		(779, 782)
mac_7n	’10000000’B		(764)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B8d		(739,743,746,749,756,758, 761,764,771,779,782,791,7 98,829,832,844)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof7
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : channel of cell B.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 2), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’10000000’B		(114)
mac_7n	’10000000’B		(40)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof7d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	INT_TO_BIT(C_HSN_0, 6)		cyclic hopping
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’01111111’B		(779,782,791,798,829,832, 844)
mac_7n	’11111111’B		(739,743,746,749,756,758, 764,771)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_11d		{739,743,746,749,756,758, 764,771,779,782,791,798,8 29,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof8
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : traffic channel of cell B. Hopping on List_ARFCN={66, 75, 76, 108}

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 4), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’01110010’B		(66, 75, 76,108)
mac_7n	’00000000’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof8d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : traffic channel of cell B. List_ARFCN={758,761,771}

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’01’O		
mac_8n	’00000111’B		{758,761,771}
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B12d		{758,761,771}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof9
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : full rate hopping channel of cell B for GSM

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’11111111’B		(,60,66,73,74,75,76,108,114)
mac_7n	’11111111’B		(14,18,22,24,30,31,38,40)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B2		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqTCHb_hof9d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a full rate hopping channel of cell B for DCS

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 13), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’02’O		
mac_8n	’00111111’B		(779,782,791,798,829)
mac_7n	’01111111’B		(739,743,746,749,756,761, 771)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0d		{739,743,746,749,756,761, 764,771,779,782,791,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping with {73,74,75} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’03’O		’00O for non hopping
mac_8n	’00000000’B		
mac_7n	’00111000’B		(73,74,75)
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof1d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : a hopping channel of cell A with {773,775,779} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 3), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000000’B		
mac_7n	’00000111’B		(773, 775, 779)
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0d		{734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof2

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : a hopping channel with hopping frequencies are the Complete Cell Allocation of cell A except for BCCH. For GSM

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000001’B		(114)
mac_7n	’11111111’B		(52,59,66,73,74,75,76,108)
mac_6n	’11111011’B		(10,17,26,34,42,45,46)
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof2d

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : a hopping channel of cell A. the hopping frequencies are the Complete Cell Allocation of cell A except for BCCH. For DCS.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000001’B		(844)
mac_7n	’11111111’B		(773,775,779,782,791,798, 829,832)
mac_6n	’11111011’B		({734,741,754,759,762,766, 767)
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0d		{734,741,747,754,759,762, 766,767,773,775,779,782,7 91,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel with the Complete Cell Allocation of cell A except 20 and 52.(GSNM)

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	’000000’B		cyclic hopping
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000001’B		(114)
mac_7n	’11111110’B		(59,66,73,74,75,76,108)
mac_6n	’11111011’B		(10,17,26,34,42,45,46)
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCHa_hof3d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of cell A with the Complete Cell Allocation of cell A with except 747 and 767. (DCS)

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	’000000’B		cyclic hopping
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	’00000001’B		(844)
mac_7n	’11111111’B		(773,775,779,782,791,798, 829,83)
mac_6n	’01111011’B		(734,741,754,759,762,766)
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0d		{734,741,747,754,759,762, 766,767,773,775,779,782,7 91,798,829,832,844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8b_hof1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 15), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’01111111’B		(66,73,74,75,76,108,114)
mac_7n	’11111111’B		(14,18,22,24,30,31,38,60)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B7		{14,18,22,24,30,31,38,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8b_hof1d
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 2), 6)		mobile allocation index offset
hsn	’000000’B		cyclic hopping
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’00000011’B		(746, 779)
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B7d		(746, 779)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8b_hof2
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 14), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’00111111’B		(66,73,74,75, 76,108)
mac_7n	’11111111’B		(14,18,22,24,30,31,38,40)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B72		{14,18,22,24,30,31,38,40,66,73,74,75, 76,108}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8b_hof2d

Structured Type : FRQPARA

Derivation Path :

Encoding Variation :

Comments : hopping SDCCH8 channel in cell B, hopping frequencies are the complete cell allocation of cell B (512 format)

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(C_HSN_0, 6)		cyclic hopping
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’11111111’B		(771,779,782,791,798,829, 832,844)
mac_7n	’11111111’B		(739,743,746,749,756,758, 761,764)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B0d		(739,743,746,749,756,758, 761,764,771,779,782,791,7 98,829,832,844)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8b_hof3
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel including complete cell allocation of cell B.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 16), 6)		
hsn	INT_TO_BIT(C_HSN_0, 6)		cyclic hopping
spr	−		
arfcn	−		
maclength	’02’O		
mac_8n	’11111111’B		(60,66,73,74,75,76,108,114)
mac_7n	’11111111’B		(14,18,22,24,30,31,38,40)
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,6 0,66,73,74,75,76,108,114}.

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_rg1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel of TC_26_6_13_1 for GSM .

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT(TSPX_Maio1, 6)		
hsn	INT_TO_BIT(TSPX_Hsn1, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma1) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma1) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma1) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_rg2
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping SDCCH8 channel of TC_26_6_13_2 for GSM .

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio4, 6)		
hsn	INT_TO_BIT(TSPX_Hsn4, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma4) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma4) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma4) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_rd1
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping SDCCH8 channel of TC_26_6_13_1 for DCS .

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		{737, 741, 747, 754, 759, 762, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_rd2
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.FreqSDCCH8_rg2.
Encoding Variation :
Comments : hopping SDCCH8 channel of TC_26_6_13_2 for DCS .

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_e
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping SDCCH8 channel of TC_26_6_10_3 for EGSM .

Element Name	Element Value	Element Encoding	Comments
hch	’0’B		hopping
maio	−		mobile allocation index offset
hsn	−		hopping sequence number
spr	’00’B		’00’B − non hopping, if hch = 0, otherwise −
arfcn	INT_TO_BIT(40, 10)		EGSM default value
maclength	’00’O		
mac_8n	−		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_e1
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : SDCCH8 channel of TC_26_6_10_2_2 for EGSM .

Element Name	Element Value	Element Encoding	Comments
hch	’0’B		non hopping
maio	−		mobile allocation index offset
hsn	−		hopping sequence number
spr	’00’B		’00’B − non hopping, if hch = 0, otherwise −
arfcn	INT_TO_BIT(1015, 10)		
maclength	’00’O		
mac_8n	−		mac64 − mac57
mac_7n	−		mac56 − mac49
mac_6n	−		mac48 − mac41
mac_5n	−		mac40 − mac33
mac_4n	−		mac32 − mac25
mac_3n	−		mac24 − mac17
mac_2n	−		mac16 − mac9
mac_1n	−		mac8 − mac1
flst	−		frequency list for hopping

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FreqSDCCH8_e2
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping with
indicates to the ARFCN_list={0, 80, 1005, 1010} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT((TSPX_MAIO MOD 4), 6)		
hsn	INT_TO_BIT(TSPX_HSN, 6)		
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’10111000’B		0, 80, 1005, 1010
mac_7n	−		
mac_6n	−		
mac_5n	−		
mac_4n	−		
mac_3n	−		
mac_2n	−		
mac_1n	−		
flst	Frql_20_A0E		E−GSM

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg2
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_1 for GSM , before time.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio3, 6)		mobile allocation index offset
hsn	INT_TO_BIT(TSPX_Hsn3, 6)		hopping sequence number
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma3) / 65536), 8)		mac64 − mac57
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma3) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma3) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd2
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg2.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_1 for DCS, before time.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		{737, 741, 747, 754, 759, 762, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg4
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_2 for GSM, after time.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio5, 6)		
hsn	INT_TO_BIT(TSPX_Hsn5, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma5) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma5) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma5) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd4
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg4.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_2 for DCS, after time.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg5
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_6_13_3 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT(TSPX_Maio6, 6)		
hsn	INT_TO_BIT(TSPX_Hsn6, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma6) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma6) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma6) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd5
Structured Type : FRQPARA
Derivation Path : Freq_rg5.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_3 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg7
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_4 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio10, 6)		
hsn	INT_TO_BIT(TSPX_Hsn10, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma10) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma10) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma10) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd7
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg7.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_4 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg8
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_4_2_2 for GSM, assignment.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		
maio	’000000’B		arbitrarily selected
hsn	’000100’B		arbitrarily selected
spr	−		
arfcn	−		
maclength	’01’O		
mac_8n	’00001110’B		mac64 − mac57
mac_7n	−		
mac_6n	−		
mac_5n	−		
mac_4n	−		
mac_3n	−		
mac_2n	−		
mac_1n	−		
flst	Frql_07		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd8
Structured Type : FRQPARA
Derivation Path : Freq_rg8.
Encoding Variation :
Comments : hopping channel of TC_26_6_4_2_2 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_17		ARFCN’s 590, 650, 750, 850

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg9
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_5 for GSM, immediate assignment. cell A

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio14, 6)		mobile allocation index offset
hsn	INT_TO_BIT(TSPX_Hsn14, 6)		hopping sequence number
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma14) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma14) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma14) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd9
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg9.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_5 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg10
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_6_13_5 for GSM, hanfover command after time in Cell B

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping
maio	INT_TO_BIT(TSPX_Maio15, 6)		
hsn	INT_TO_BIT(TSPX_Hsn15, 6)		
spr	–		
arfcn	–		
maclength	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma15) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma15) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma15) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg11
Structured Type : FRQPARA
Derivation Path : Freq_rg10.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_5 for GSM, hanfover command before time in Cell B

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio16, 6)		
hsn	INT_TO_BIT(TSPX_Hsn16, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma16) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma16) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma16) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd11
Structured Type : FRQPARA
Derivation Path : Freq_rg10.Freq_rg11.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_5 for DCS, handover command before time in Cell B

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_B1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg12
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_6 for GSM, immediate assignment. cell A

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio17, 6)		
hsn	INT_TO_BIT(TSPX_Hsn17, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma17) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma17) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma17) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd12
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg12.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_6 for DCS, immediate assignment. Cell A

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg13
Structured Type : FRQPARA
Derivation Path : Freq_rg10.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_6 for GSM, hanfover command after time in Cell B

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio18, 6)		mobile allocation index offset
hsn	INT_TO_BIT(TSPX_Hsn18, 6)		hopping sequence number
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma18) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma18) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma18) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd13
Structured Type : FRQPARA
Derivation Path : Freq_rg10.Freq_rg13.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_6 for DCS, handover command after time in Cell B

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_B1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg14
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_7 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio20, 6)		
hsn	INT_TO_BIT(TSPX_Hsn20, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma20) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma20) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma20) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd14
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg14.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_7 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg15
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_8 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio24, 6)		
hsn	INT_TO_BIT(TSPX_Hsn24, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma24) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma24) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma24) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd15
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg15.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_8 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg16
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_9 for GSM, immediate assignment before time.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio29, 6)		
hsn	INT_TO_BIT(TSPX_Hsn28, 6)		same as after time
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma29) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma29) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma29) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd16
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg16.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_8 for DCS, immediate assignment before time.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg17
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_10 for GSM, immediate assignment after time.

Element Name	Element Value	Element Encoding	Comments
maio	INT_TO_BIT(TSPX_Maio30, 6)		
hsn	INT_TO_BIT(TSPX_Hsn30, 6)		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma30) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma30) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma30) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd17
Structured Type : FRQPARA
Derivation Path : FreqSDCCH8_rg1.Freq_rg17.
Encoding Variation :
Comments : hopping channel of TC_26_6_13_8 for DCS, immediate assignment after time.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg18
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping channel
maio	’001001’B		mobile allocation index offset
hsn	’000000’B		hopping sequence number
spr	−		’00’B − non hopping, if hch = 0, otherwise −
arfcn	−		absolute RF channel number − non hopping, if hch = 0, otherwise −
maclength	’08’O		
mac_8n	’00000000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00111111’B		mac16 − mac9
mac_1n	’11111110’B		mac8 − mac1
flst	Frql_20		ARFCNs = 1.. 64

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd18
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_29		ARFCN’s 749, .., 812

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg19
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000100’B		
mac_8n	’10000000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’10000000’B		mac40 − mac33
mac_4n	’00100000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00000000’B		mac16 − mac9
mac_1n	’00000101’B		mac8 − mac1
flst	Frql_21		ARFCNs = 61.. 124

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd19
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg19.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_30		ARFCN’s: 702, ..., 765

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg20
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000010’B		
mac_8n	’01000000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000010’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00000000’B		mac16 − mac9
mac_1n	’01100101’B		mac8 − mac1
flst	Frql_22		ARFCNs = 1, 3, 5, ..., 123, 2, 4

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd20
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg20.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_31		ARFCN’s: 702, 704, ..., 812, 733, 741, 749, 757, 765, 773, 781, 789

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rg21
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000110’B		
mac_8n	’00000001’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’01000010’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000001’B		mac24 − mac17
mac_2n	’01110000’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_23		ARFCNs = 2, 4, 6, ..., 124, 1, 3

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd21
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg21.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_32		

Detailed Comments : ARFCN’s: 717, ..., 724, 733, ..., 744, 757, ..., 760, 773, ..., 812

Structured Type Constraint Declaration

Constraint Name : Freq_rg22
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000101’B		
mac_8n	’01001000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00001101’B		mac24 − mac17
mac_2n	’01000100’B		mac16 − mac9
mac_1n	’00000001’B		mac8 − mac1
flst	Frql_24		ARFCNs = 21, ..., 84

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd22
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg22.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_33		

Detailed Comments : 64 ARFCN’s: 702, ..., 732, 749, 750, 754, ..., 756, 758, 762, ..., 764, 766, 770, ..., 772, 774, 778, ..., 780, 782, 786, ..., 788, 790, 794, ..., 796, 798, 802, ..., 804, 806, 810, ..., 812

Structured Type Constraint Declaration

Constraint Name : Freq_rg23
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’001000’B		
mac_8n	’11111111’B		mac64 − mac57
mac_7n	’10000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00011111’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_25		ARFCNs = 81, ..., 124, 1, ..., 20

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd23
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg23.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_34		

Detailed Comments : ARFCN’s: 707, 709, ..., 713, 715, 717, ..., 721, 723, 725, ..., 729, 731, 733, ..., 737, 739, 741, ..., 745, 747, 749, ..., 753, 755, 757, ..., 761, 763, 765, ..., 769,771, 779, 787, 795, 798,..., 803, 806, ..., 811

Structured Type Constraint Declaration

Constraint Name : Freq_rg24
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000011’B		
mac_8n	’11111000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00011111’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_26		ARFCNs = 11, ..., 74

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd24
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg24.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_35		

Detailed Comments : ARFCN’s: 705, ..., 736, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811

Structured Type Constraint Declaration

Constraint Name : Freq_rg25
Structured Type : FRQPARA
Derivation Path : Freq_rg18.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
maio	’000111’B		
mac_8n	’00000000’B		mac64 − mac57
mac_7n	’00000000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00001111’B		mac24 − mac17
mac_2n	’11111110’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_27		ARFCNs = 31, ..., 94

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd25
Structured Type : FRQPARA
Derivation Path : Freq_rg18.Freq_rg25.
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
flst	Frql_36		

Detailed Comments : ARFCN’s: 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 76, 738, 740, 742, 744, 746, 748, 750, 852, 754, 756, 758, 760, 762, 764, ..., 780, 789, ..., 796, 805, 812

Structured Type Constraint Declaration

Constraint Name : Freq_rg26
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for GSM, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping channel
maio	’000001’B		mobile allocation index offset
hsn	’000000’B		hopping sequence number
spr	−		’00’B − non hopping, if hch = 0, otherwise −
arfcn	−		absolute RF channel number − non hopping, if hch = 0, otherwise −
maclength	’08’O		
mac_8n	’11111111’B		mac64 − mac57
mac_7n	’11110000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00000000’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_28		ARFCNs = 51, ...,114

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Freq_rd26
Structured Type : FRQPARA
Derivation Path :
Encoding Variation :
Comments : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.

Element Name	Element Value	Element Encoding	Comments
hch	’1’B		hopping channel
maio	’000001’B		mobile allocation index offset
hsn	’000000’B		hopping sequence number
spr	−		’00’B − non hopping, if hch = 0, otherwise −
arfcn	−		absolute RF channel number − non hopping, if hch = 0, otherwise −
maclength	’08’O		
mac_8n	’11111111’B		mac64 − mac57
mac_7n	’11110000’B		mac56 − mac49
mac_6n	’00000000’B		mac48 − mac41
mac_5n	’00000000’B		mac40 − mac33
mac_4n	’00000000’B		mac32 − mac25
mac_3n	’00000000’B		mac24 − mac17
mac_2n	’00000000’B		mac16 − mac9
mac_1n	’00000000’B		mac8 − mac1
flst	Frql_37		

Detailed Comments : ARFCN’s: 717, ..., 748, 765, ..., 796

Structured Type Constraint Declaration

Constraint Name : Frql(par_flist, par_flistl : LENGTH)
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : parameterized frequncy list information element.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	par_flistl		length of the contents
fl	par_flist		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_omit
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
fl	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_short(flist : OCTETSTRING)
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : parameterized frequency short list information element.

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		
iel	–		no length element for short list
fl	flist		9 octets

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_01
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : coded as length = 1 and unrecognised IE contents.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’01’O		length = 1
fl	’00’O		unrecognised IE contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_02
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : coded as length = 1 and unrecognised IE contents.

Element Name	Element Value	Element Encoding	Comments
iei	’11011010’B		
iel	–		
fl	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_04
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list for GSM900 hopping channel with only one frequency, ARFCN = 124

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’08000000000000000000 00000000000’O		ARFCN = 124

Detailed Comments : used in TC_26_5_7_1_4

Structured Type Constraint Declaration

Constraint Name : Frql_05
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list for DCS1800 hopping channel with only one frequency ARFCN 801.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’03’O		length = 3
fl	’8F9080’O		ARFCN = 801

Detailed Comments : used in TC_26_5_7_1_4

Structured Type Constraint Declaration

Constraint Name : Frql_07
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs 20, 30, 50, 70

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’00000000000000020000020 00020080000’O		bitmat 0 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_08
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs 10, 34, 52, 73, 108, 114.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00020800000010000080 00200000200’O		bit map 0 format, ARFCNs = 10, 34, 52, 73, 108, 114

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_09
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs 734, 741, 759, 766, 773, 832, 844

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’82FEF390BE71448300000 00000000000’O		range 1024 format, ARFCNs: 734, 741, 759, 766, 773, 832, 844

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : Frql_10			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 10, 17, 20, 26, 34, 42, 45, 46, 52, 59			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00000000000000004083 20202090200’O		bit map 0 format, ARFCNs 10, 17, 20, 26, 34, 42, 46, 52, 59
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_11			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0204083 00000000000’O		bit map 0 format, ARFCNs 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_12			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 17, 20			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00000000000000000000 00000090000’O		bit map 0 format, ARFCNs 17, 20
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Frql_13
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’82FEF6837EBF0300FCFEF60000000000’O		1024 range format, ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_14
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8315FB0AFF3F40C33F5A000000000000’O		1024 range format, ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_15
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs 741, 747

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’82EBFD000000000000000000000000000’O		1024 range format, ARFCNs 741,747

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : Frql_17			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs 590, 650, 750, 850			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’82EECE19310000000000 000000000000’O		1024 range format, ARFCNs 590, 650, 750, 850
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0000000000000000FFFFF FFFFFFFFFFFF’O		ARFCNs = 1.. 64, bit map 0 format B_ARFCN = 16
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : Frql_20_A0			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : Complete Cell Allocation of cell A in HO cases. ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0204083 20202090200’O		
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Frql_20_A0d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation of Cell A in HO cases using 512 format.
frequency list, after time for a target cell used in HO_case in cell A for DCS1800.
List_ARFCN={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’896F0A7CC5FC700A8B9F 7FF452463340’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_egsm(par_flist: OCTETSTRING; par_flistl: LENGTH)
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation in EGSM cases.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	par_flistl		
fl	par_flist		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_A
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time used in HO_case in cell A.
List_ARFCN={10,17,20,26,59,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0204000 00002090200’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_Ad
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list used in HO_case in cell A for DCS1800 using 256 format for the List_ARFCN={747, 775, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’09’O		
fl	’8B7599F045EFA499C0’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frqls_20_Ad
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Encodes the frequency short using 256 format for the List_ARFCN={747, 775, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		
iel	–		
fl	’8B7599F045EFA499C0’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_A1d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B used in TC_26_6_13 for cell A (DCS) using 256 format for the List_ARFCN = {737, 741, 747, 754, 759, 762, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’8B7093732FC602C59EFF A54999400000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_A2
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation of cell A in HO cases.
ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0204083 20202090200’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_A2d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation of Cell A in HO cases using 512 format.
frequency list, after time for a target cell used in HO_case in cell A for DCS1800.
List_ARFCN={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’896F0A7CC5FC700A8B9F 7FF452463340’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B0
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation of cell B in HO cases.
all of the CA: ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0208000 0A060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B0d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B using 512 format.
List_ARFCN= complete cell allocation of cell B in HO cases.
739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’0F’O		Frql_20_B2
fl	’8971883C46FB700A8BDF 7DF4324330’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B1
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B.
List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0200100 02060222000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B1d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, used in TC_26_6_13 for cell B.List_ARFCN =
{739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 256 format.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’0D’O		length = 13
fl	’8B71907137B602C5DEF7 A348D8’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B2
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B. Complete Cell Allocation of cell B in HO cases. List_ARFCN={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0208000 0A060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B3
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B. List_ARFCN={14,18,22,24,60,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0208000 00000A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B4
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B. List_ARFCN={40, 66, 73, 74, 75, 76, 108, 114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0200000 08000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B3d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B using 1024 format.
List_ARFCN={749, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’0D’O		
fl	’830EF70BFEB843C3FBF9 F1D018’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B4d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B. variable bit map format. List_ARFCN={764, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’0D’O		
fl	’8F7E00012010200000004 80080’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B5
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B.
List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0200100 02060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B5d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B.
List_ARFCN={756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’09’O		
fl	’8D7A23B07B3D7FD4D0’O		range 128 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B6d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B.
List_ARFCN={761,764,771,779,782,791,798,829,832} range 512 format.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’0A’O		
fl	’897C87BD09BC61060F90 ’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B7
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B.
List_ARFCN={14,18,22,24,30,31,38,60,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0002080000000F0208000 02060A22000’O		bit map 0

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B72
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B. List_ARFCN={14,18,22,24,30,31,38,40,66,73,74,75, 76,108}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0000080000000F0200000 0A060A22000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B7d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency short list, after time for cell B using 128 format.
List_ARFCN={746, 779}

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		
iel	–		
fl	’8D7521000000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B8d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B using 1024 format.
List_ARFCN= complete cell allocation of cell B in HO cases.
739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’8303F886FDBC0148BEFD FBF41890633C’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B9d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B using 256 format
List_ARFCN={746,749,756,761,764,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’09’O		
fl	’8B751A5B45DFA19990’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B10d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency short list, after time for cell B using range 256 format, ARFCN={764,779,782}

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		
iel	–		
fl	’8B7E097D0000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_11d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency list, after time for cell B using variable bit map format for
List_ARFCN={739,743,746,749,756,758,764,771,779,782,791,798,829,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		
fl	’8F7189205040809008100 00000240040’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_B12d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : frequency short list, after time for cell B using 128 format List_ARFCN={758,761,771}

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		
iel	–		
fl	’8D7B0DD80000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_20_A0E
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : Complete Cell Allocation of cell A in EGSM cases using of 1024 format.
ARFCN_list={0, 30, 40, 66, 1005, 1010, 1015}.

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’841EEA893EF9814380000 00000000000’O		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_21
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 61.. 124 for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0FFFFFFFFFFFFFFFF0000 00000000000’O		ARFCNs = 61.. 124, bit map 0 format

Detailed Comments : B_ARFCN = 62

Structured Type Constraint Declaration

Constraint Name : Frql_22
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 1, 3, 5, ...,123, 2, 4 for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’05555555555555555555 5555555555F’O		ARFCNs = 1, 3, 5, ..., 123, 2, 4, bit map 0 format

Detailed Comments : B_ARFCN = 5

Structured Type Constraint Declaration

Constraint Name : Frql_23
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs= 2, 4, 6, ..., 124, 1, 3 for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0AAAAAAAAAAAAAAAAA AAAAAAAAAAAAAF’O		ARFCNs = 2, 4, 6, ..., 124, 1, 3, bit map 0 format

Detailed Comments : B_ARFCN = 8, not in MA(1)

Structured Type Constraint Declaration

Constraint Name : Frql_24
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 21, ..., 84, for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00000000000FFFFFFFFFF FFFFFF00000’O		ARFCNs = 21, ..., 84, bit map 0 format

Detailed Comments : B_ARFCN = 25, not in MA(1)

Structured Type Constraint Declaration			
Constraint Name : Frql_25			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 81, ..., 124, 1, ..., 20, for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0FFFFFFFFFFF000000000 000000FFFFF’O		ARFCNs = 81, ..., 124, 1, ..., 20, bit map 0 format
Detailed Comments : B_ARFCN = 86, not in MA(1)			

Structured Type Constraint Declaration			
Constraint Name : Frql_26			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 11, ..., 74, for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00000000000003FFFFFFF FFFFFFFFC00’O		ARFCNs = 11, ..., 74, bit map 0 format
Detailed Comments : B_ARFCN = 18, not in MA(1)			

Structured Type Constraint Declaration			
Constraint Name : Frql_27			
Structured Type : FRQL			
Derivation Path :			
Encoding Variation :			
Comments : ARFCNs = 31, ..., 94, for GSM of TC_26_6_6_1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	’00000101’B		
iel	’10’O		length = 16
fl	’000000003FFFFFFFFFFFF FFFC0000000’O		ARFCNs = 31, ..., 94, bit map 0 format
Detailed Comments : B_ARFCN = 38, not in MA(1)			

Structured Type Constraint Declaration

Constraint Name : Frql_28
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 51, ...,114, for GSM of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’0003FFFFFFFFFFFFFFFC0 00000000000’O		ARFCNs = 51, ...,114, bit map 0 format

Detailed Comments : B_ARFCN = 58, not in MA(1)

Structured Type Constraint Declaration

Constraint Name : Frql_29
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 749, ..., 812, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F76FFFFFFFFFFFFFFF0 00000000000’O		ARFCNs = 749, ..., 812, variable bit map format

Detailed Comments : Org_ARFCN = 750, B_ARFCN = 799, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_30
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 701,...,764, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F5EFFFFFFFFFFFFFFF0 00000000000’O		ARFCNs = 702, ..., 765, variable bit map format

Detailed Comments : Org_ARFCN = 701, B_ARFCN = 705, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_31
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 702, 704, ..., 812, 733, 741, 749, 757, 765, 773, 781, 789, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F5F2AAAAAABABABABA BABABABAAAAAA’O		variable bit map format

Detailed Comments : Org_ARFCN = 702, B_ARFCN = 718, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_32
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 717, ..., 724, 733, ..., 744, 757, ..., 760, 773, ..., 812, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F66FF00FFF000F000FFF FFFFFFF0000’O		variable bit map format

Detailed Comments : Org_ARFCN = 717, B_ARFCN = 757, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_33
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs: 702, ..., 732, 746, 750, 754, ..., 756, 758, 762, ..., 764, 766, 770, ..., 772, 774, 778, ..., 780, 782, 786, ..., 788, 790, 794, ..., 796, 798, 802, ..., 804, 806, 810, ..., 812 for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F5F7FFFFFFE00088E8E8 E8E8E8E8E8E8E’O		variable bit map format

Detailed Comments : Org_ARFCN = 702, B_ARFCN = 710, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_34
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 707, 709, ..., 713, 715, 717, ..., 721, 723, 725, ..., 729, 731, 733, ..., 737, 739, 741, ..., 745, 747, 749, ..., 753, 755, 757, ..., 761, 763, 765, ..., 769,771, 779, 787, 795, 798,..., 803, 806, ..., 811, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F61BEBEBEBEBEBEBE8080809F9F80’O		variable bit map format

Detailed Comments : Org_ARFCN = 707, B_ARFCN = 742, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_35
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 705, ..., 736, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811 , for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F60FFFFFFFF000AAAAAAAAAAAAAA0’O		variable bit map format

Detailed Comments : Org_ARFCN = 705, B_ARFCN = 734, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_36
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, ..., 780, 789, ..., 796, 805, 812, for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F5F2AAAAAAAAAAAAAABFFFE01FE01FE’O		variable bit map format

Detailed Comments : Org_ARFCN = 702, B_ARFCN = 776, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_37
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCNs = 717, ..., 748, 765, ..., 796 , for DCS of TC_26_6_6_1

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F66FFFFFFFF0000FFFFFFFF00000000’O		variable bit map format

Detailed Comments : Org_ARFCN = 717, B_ARFCN = 744, not in MA

Structured Type Constraint Declaration

Constraint Name : Frql_38
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCN 30 and 50

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’00000000000000000000200002000000’O		ARFCN 30 and 50

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Frql_38d
Structured Type : FRQL
Derivation Path :
Encoding Variation :
Comments : ARFCN 650 and 750, variable bit map

Element Name	Element Value	Element Encoding	Comments
iei	’00000101’B		
iel	’10’O		length = 16
fl	’8F4500000000000000000000000001000’O		ARFCN 650 and 750

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Hlcmp_AnyOrOmit
Structured Type : HLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE with parameter "any'" or "omit".

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B IF_PRESENT		’01111101’B
iel	*		
extb3	*		extension bit (’1’B)
cs	*		CCITT
in	*		first HL characteristics identification to be used in the call.
pmpp	*		High layer protocol profile
extb4	*		extension bit, octet 4
hlci	*		telephony
extb4a	*		extension bit, ’1’B, octet 4a
ehlci	*		extended high layer characteristics identification

Detailed Comments : used in test cases where the HLC is not checked

Structured Type Constraint Declaration

Constraint Name : Hlcmp_NotApplicable
Structured Type : HLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE wich is not applicable for a specific service (empty IE).

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B		’01111101’B
iel	’00’O		empty IE −> length is 0
extb3	−		
cs	−		
in	−		
pmpp	−		
extb4	−		
hlci	−		
extb4a	−		
ehlci	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Hlcmp_TS61
Structured Type : HLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE for teleservice 61.

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B		’01111101’B
iel	’02’O		
extb3	’1’B		extension bit (’1’B)
cs	’00’B		CCITT
in	’100’B		first HL characteristics identification to be used in the call.
pmpp	’01’B		High layer protocol profile
extb4	’?’B		extension bit, octet 4
hlci	’0000100’B		facsimile group 2/3
extb4a	*		extension bit, ’1’B, octet 4a
ehlci	*		extended high layer characteristics identification

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Hlcmp_TS62
Structured Type : HLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE for teleservice 62.

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B		’01111101’B
iel	’02’O		
extb3	’1’B		extension bit (’1’B)
cs	’00’B		CCITT
in	’100’B		first HL characteristics identification to be used in the call.
pmpp	’01’B		High layer protocol profile
extb4	’?’B		extension bit, octet 4
hlci	’0000100’B		facsimile group 2/3
extb4a	*		extension bit, ’1’B, octet 4a
ehlci	*		extended high layer characteristics identification

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct(iel : LENGTH)
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	−		
iaroct1	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B 2B2B2B2B2B2B2B'O, (11 − OC_OctToInt(iel)))		p=00 format
iaroct2	−		p=10 format

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_01
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	−		
iaroct1	'2B2B2B2B2B2B2B2B2B2B 2B'O		p=00 format, 11 octets
iaroct2	−		p=10 format used in TC_26_6_13_9, TC_26_6_13_10

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_02
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	−		
iaroct1	'2B2B2B2B2B2B2B2B2B2B 'O		p=00 format, 10 octets
iaroct2	−		p=10 format used in TC_26_6_13_9, TC_26_6_13_10

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_03
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_9.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	–		
iaroct2	IaRestOct2_01		p=10 format, TSPX_Maio29, TSPX_Ma29

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_04
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_10.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	–		p=00 format
iaroct2	IaRestOct2_02		p=10 format, TSPX_Maio31, TSPX_Ma31

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_05
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	’1A4C6B8EAF37B21A2D5 B65’O		p=00 format, all octets are diffrent from ’2B’O
iaroct2	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_06
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	’2B2B2B’O		p=00 format, 3 ’2B’ octets
iaroct2	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct_08
Structured Type : IARESTOCT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iaroct1	’2B2B2B2B2B2B2B2B’O		p=00 format, 8 ’2B’ octets
iaroct2	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct2_01
Structured Type : IARESTOCT2
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
p	’10’B		’10’B p=10 format
frqparalen	’000100’B		length of frequency parameters contents
spbt1	’00’B		spare bits ’00’B
maio	INT_TO_BIT(TSPX_Maio29, 6)		MAIO mobile allocation index offset
ma	TSPX_Ma29		3 octets
spbt2	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : IaRestOct2_02
Structured Type : IARESTOCT2
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
p	’10’B		’10’B p=10 format
frqparalen	’000100’B		length of frequency parameters contents
spbt1	’00’B		spare bits ’00’B
maio	INT_TO_BIT(TSPX_Maio31, 6)		MAIO mobile allocation index offset
ma	TSPX_Ma31		3 octets
spbt2	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : KeyPad_01(character : IA5String)
Structured Type : KPF
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’00101100’B		keypad facility identity,
extb	’0’B		extension bit (’0’B)
kpf_info	character		one DTMF digit (IA5 character)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : KeyPad_02
Structured Type : KPF
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’00101100’B		keypad facility identity,
extb	’0’B		extension bit (’0’B)
kpf_info	?		one DTMF digit (IA5 character)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Llcmp_AnyOrOmit
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE which has any or omit value in all fields.

Element Name	Element Value	Element Encoding	Comments
iei	’01111100’B IF_PRESENT		’01111100’B
iel	*		empty IE −> length is 0
extb3	*		extension bit, octet 3
cs	*		coding standard, octet 3
itc	*		information transfer capability, octet 3
extb3a	*		extension bit, ’1’B, octet 3a
negind	*		negotiation indicator
spb3a	*		spare bits, ’000000’B
extb4	*		extension bit, octet 4
tm	*		transfer mode
itr	*		information transfer rate, octet 4
extb4_1	*		extension bit, octet 4.1
rateml	*		not checked
extb5	*		extension bit, octet 5
l1id	*		L1 identity, ’01’B, octet 5
uil1	*		user information L1 protocol, octet 5
extb5a	*		extension bit, octet 5a
sb	*		synchronous bit, octet 5a
neg	*		negotiation bit, octet 5a
ur	*		user rate, octet 5a
extb5b1	*		extension bit, octet 5b1
ir	*		intermediate rate, octet 5b1
nictx	*		network independent clock on transmission, octet 5b1
nicrx	*		network independent clock on reception, octet 5b1
fctx	*		flow control on transmission, octet 5b1
fcrx	*		flow control on reception, octet 5b1
spb5b1	*		spare bit, ’0’B, octet 5b1
extb5b2	*		extension bit, octet 5b2
hdrb	*		Hdr/no Hdr−bit, octet 5b2
mfs	*		Multi frame support, octet 5b2
mode	*		Mode, octet 5b2
llineg	*		LLI negotiation, octet 5b2
ass	*		Assignor/Assignee, octet 5b2
ibob	*		Inband/outband negotiation, octet 5b2
spb5b2	*		spare bit, ’0’B, octet 5b2

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
extb5c	*		extension bit, octet 5c
nsb	*		number of stop bits, octet 5c
ndb	*		number of data bits, octet 5c
pi	*		parity information, octet 5c
extb5d	*		extension bit, ’1’B, octet 5d
dplxm	*		duplex mode, octet 5d
modemt	*		modem type, octet 5d
extb6	*		extension bit, octet 6
l2id	*		L2 identity, ’10’B, octet 6
uil2	*		not checked
extb6a1	*		not checked
modl2	*		not checked
spb6a1	*		not checked
q933	*		not checked
extb6a2	*		not checked
usl2pi	*		not checked
extb6b	*		not checked
ws	*		not checked
extb7	*		not checked
l3id	*		not checked
uil3	*		not checked
extb7a1	*		not checked
modl3	*		not checked
spb7a1	*		not checked
extb7a2	*		not checked
usl3pi	*		not checked
extb7b	*		not checked
spb7b	*		not checked
dps	*		not checked
extb7c	*		not checked
pws	*		not checked
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Llcmp_NotApplicable
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : High Layer Compatibility IE which is not applicable for a specific service (empty IE).

Element Name	Element Value	Element Encoding	Comments
iei	’01111100’B		’01111100’B
iel	’00’O		empty IE −> length is 0
extb3	−		extension bit, octet 3
cs	−		coding standard, octet 3
itc	−		information transfer capability, octet 3
extb3a	−		extension bit, ’1’B, octet 3a
negind	−		negotiation indicator
spb3a	−		spare bits, ’000000’B
extb4	−		extension bit, octet 4
tm	−		transfer mode
itr	−		information transfer rate, octet 4
extb4_1	−		extension bit, octet 4.1
rateml	−		not checked
extb5	−		extension bit, octet 5
l1id	−		L1 identity, ’01’B, octet 5
uil1	−		user information L1 protocol, octet 5
extb5a	−		extension bit, octet 5a
sb	−		synchronous bit, octet 5a
neg	−		negotiation bit, octet 5a
ur	−		user rate, octet 5a
extb5b1	−		extension bit, octet 5b1
ir	−		intermediate rate, octet 5b1
nictx	−		network independent clock on transmission, octet 5b1
nicrx	−		network independent clock on reception, octet 5b1
fctx	−		flow control on transmission, octet 5b1
fcrx	−		flow control on reception, octet 5b1
spb5b1	−		spare bit, ’0’B, octet 5b1
extb5b2	−		extension bit, octet 5b2
hdrb	−		Hdr/no Hdr−bit, octet 5b2
mfs	−		Multi frame support, octet 5b2
mode	−		Mode, octet 5b2
llineg	−		LLI negotiation, octet 5b2
ass	−		Assignor/Assignee, octet 5b2
ibob	−		Inband/outband negotiation, octet 5b2
spb5b2	−		spare bit, ’0’B, octet 5b2

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
extb5c	–		extension bit, octet 5c
nsb	–		number of stop bits, octet 5c
ndb	–		number of data bits, octet 5c
pi	–		parity information, octet 5c
extb5d	–		extension bit, ’1’B, octet 5d
dplxm	–		duplex mode, octet 5d
modemt	–		modem type, octet 5d
extb6	–		extension bit, octet 6
l2id	–		L2 identity, ’10’B, octet 6
uil2	–		not checked
extb6a1	–		not checked
modl2	–		not checked
spb6a1	–		not checked
q933	–		not checked
extb6a2	–		not checked
usl2pi	–		not checked
extb6b	–		not checked
ws	–		not checked
extb7	–		not checked
l3id	–		not checked
uil3	–		not checked
extb7a1	–		not checked
modl3	–		not checked
spb7a1	–		not checked
extb7a2	–		not checked
usl3pi	–		not checked
extb7b	–		not checked
spb7b	–		not checked
dps	–		not checked
extb7c	–		not checked
pws	–		not checked
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS2xOrBS4x_UDI
Structured Type : LLCMP
Derivation Path :
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.2.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iei	’01111100’B		’01111100’B
iel	(’06’O, ’07’O, ’08’O, ’09’O, ’0A’O, ’0B’O, ’0C’O, ’0D’O, ’0E’O)		at least 6 OCTETs
extb3	’?’B		extension bit , octet 3
cs	’00’B		CCITT standardized coding
itc	’01000’B		unrestricted digital information
extb3a	’1’B IF_PRESENT		extension bit, ’1’B, octet 3a
negind	*		negotiation indicator
spb3a	’000000’B IF_PRESENT		spare bits, ’000000’B
extb4	’1’B		extension bit, octet 4
tm	’00’B		circuit mode
itr	’10000’B		64 kBit/s
extb4_1	−		not presented
rateml	−		not presented
extb5	’0’B		extension bit, octet 5
l1id	’01’B		L1 identity, ’01’B, octet 5
uil1	’00001’B		V.110/X.30 rate adaption
extb5a	’0’B		extension bit, octet 5a
sb	’1’B		asynchronous
neg	’0’B		negotiation not possible
ur	(’00010’B, ’00011’B, ’00101’B, ’01000’B, ’10111’B, ’11110’B)		1.2, 2.4, 4.8, 9.6, 0.075/1.2, 0.3 kbit/s
extb5b1	’0’B		extension bit, octet 5b1
ir	(’01’B, ’10’B)		8, 16 kbit/s
nictx	’?’B		not relevant
nicrx	’?’B		not relevant
fctx	’0’B		not required
fcrx	’0’B		cannot accept data with flow control
spb5b1	’0’B		spare bit
extb5b2	−		extension bit, octet 5b2
hdrb	−		Hdr/no Hdr−bit, octet 5b2
mfs	−		Multi frame support, octet 5b2
mode	−		Mode, octet 5b2
llineg	−		LLI negotiation, octet 5b2
ass	−		Assignor/Assignee, octet 5b2
ibob	−		Inband/outband negotiation, octet 5b2
spb5b2	−		spare bit, ’0’B, octet 5b2
extb5c	’?’B		extension bit, octet 5c

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Structured Type Constraint Declaration			
Element Name	**Element Value**	**Element Encoding**	**Comments**
nsb	(’01’B, ’11’B)		1, 2 bits
ndb	(’10’B, ’11’B)		7, 8 bits
pi	(’000’B,’010’B, ’011’B, ’100’B, ’101’B)		odd, even, none, forced to 0, forced to 1
extb5d	’1’B IF_PRESENT		extension bit, octet 5d
dplxm	*		half or full duplex
modemt	*		not relevant
extb6	*		extension bit, octet 6
l2id	*		L2 identity, ’10’B, octet 6
uil2	*		not checked
extb6a1	*		not checked
modl2	*		not checked
spb6a1	*		not checked
q933	*		not checked
extb6a2	*		not checked
usl2pi	*		not checked
extb6b	*		not checked
ws	*		not checked
extb7	*		not checked
l3id	*		not checked
uil3	*		not checked
extb7a1	*		not checked
modl3	*		not checked
spb7a1	*		not checked
extb7a2	*		not checked
usl3pi	*		not checked
extb7b	*		not checked
spb7b	*		not checked
dps	*		not checked
extb7c	*		not checked
pws	*		not checked
Detailed Comments : Corresponding to the Bearer Services 21 ... 26, 41 ... 46 Unrestrict digital information transfer capability.			

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS2xOrBS61aOrBS81a_3100
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.2.2 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	(’07’O,’08’O, ’09’O, ’0A’O, ’0B’O, ’0C’O, ’0D’O, ’0E’O)		at least 7 OCTETs
extb3	’?’B		extension bit , octet 3
cs	’00’B		CCITT standardized coding
itc	’10000’B		3.1kHz audio
extb4	’1’B		extension bit, octet 4
tm	’00’B		circuit mode
itr	’10000’B		64 kBit/s
extb5	’0’B		extension bit, octet 5
l1id	’01’B		L1 identity, ’01’B, octet 5
uil1	’00011’B		G.711 A−law
extb5a	’0’B		can not be omitted in order to have 5d
sb	?		not checked
neg	?		not checked
ur	?		not checked
extb5b1	’0’B		can not be omitted in order to have 5d
ir	?		not checked
nictx	?		not checked
nicrx	?		not checked
fctx	?		not checked
fcrx	?		not checked
spb5b1	’0’B		not checked
extb5c	’0’B		can not be omitted in order to have 5d
nsb	?		not checked
ndb	?		not checked
pi	?		not checked
extb5d	’1’B		extension bit, octet 5d
dplxm	?		half or full duplex
modemt	(’010001’B, ’010010’B, ’010011’B, ’010100’B, ’010111’B, ’011100’B)		V.21, V.22, V.22bis, V.23, V.26ter, V.32

Detailed Comments : Corresponding to the Bearer Services 21 ... 26, 61 Asynchronous or 81 Asynchronous 3.1 kHz audio ex−PLMN information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS3x_UDI
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.3.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('05'O, '06'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 5 OCTETs
extb3	'?'B		extension bit, octet 3
cs	'00'B		CCITT standardized coding
itc	'01000'B		unrestricted digital information
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	('00001'B, '01001'B)		V.100/X.30 rate adaption or X.31 flag stuffing
extb5a	'0'B		extension bit, octet 5a
sb	'0'B		synchronous
neg	'0'B		negotiation not possible
ur	('00010'B, '00011'B, '00101'B, '01000'B)		1.2, 2.4, 4.8, 9.6 kbit/s
extb5b1	'?'B		extension bit, octet 5b1
ir	('01'B, '10'B)		8, 16 kbit/s
nictx	'?'B		not checked
nicrx	'?'B		not checked
fctx	'?'B		not relevant
fcrx	'?'B		not relevant
spb5b1	'0'B		spare bit
extb5c	'0'B IF_PRESENT		extension bit, octet 5c
nsb	*		any or omit
ndb	*		any or omit
pi	*		any or omit
extb5d	'1'B IF_PRESENT		extension bit, octet 5d
dplxm	*		duplex mode
modemt	*		not relevant
extb6	*		extension bit, octet 6
l2id	'10'B IF_PRESENT		L2 identity, '10'B, octet 6
uil2	('00110'B, '00111'B) IF_PRESENT		X.25 link layer or X.25 Multilink
extb7	*		extension bit, octet 7
l3id	'11'B IF_PRESENT		L3 identity, '11'B, octet 7
uil3	('00110'B, '00111'B) IF_PRESENT		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 31 ... 34 unrestricted digital information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS3xOrBS61sOrBS81s_3100
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.3.2 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('03'O,'04'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 3 OCTETs
extb3	'?'B		extension bit , octet 3
cs	'00'B		CCITT standardized coding
itc	'10000'B		3.1kHz audio
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'?'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'00011'B		G.711 A−law
extb5a	'0'B IF_PRESENT		extension bit, octet 5a
sb	*		any or omit
neg	*		any or omit
ur	*		any or omit
extb5b1	*		any or omit
ir	*		any or omit
nictx	*		any or omit
nicrx	*		any or omit
fctx	*		any or omit
fcrx	*		any or omit
spb5b1	*		any or omit
extb5c	'0'B IF_PRESENT		extension bit, octet 5c
nsb	*		any or omit
ndb	*		any or omit
pi	*		any or omit
extb5d	'1'B IF_PRESENT		extension bit, octet 5d
dplxm	*		duplex mode
modemt	('010010'B, '010011'B, '010111'B, '011100'B) IF_PRESENT		V.22, V.22bis, V.26ter, V.32
extb6	*		extension bit, octet 6
l2id	'10'B IF_PRESENT		L2 identity, '10'B, octet 6
uil2	('00110'B, '00111'B) IF_PRESENT		X.25 link layer or X.25 Multilink
extb7	*		extension bit, octet 7
l3id	'11'B IF_PRESENT		L3 identity, '11'B, octet 7
uil3	('00110'B, '00111'B) IF_PRESENT		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 31 ... 34, 61 Synchronous or 81 Synchronous 3.1kHz audio information transfer capability.

Structured Type Constraint Declaration

Constraint Name : Llcmp_BS5x
Structured Type : LLCMP
Derivation Path : Llcmp_BS2xOrBS4x_UDI.
Encoding Variation :
Comments : Lower Layer Compatibility IE for a setup PDU, B.2.5.1 of GSM 07.01.

Element Name	Element Value	Element Encoding	Comments
iel	('06'O,'07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)		at least 6 OCTETs
extb3	'?'B		extension bit, octet 3
cs	'00'B		CCITT standardized coding
itc	'01000'B		unrestricted digital information
extb4	'1'B		extension bit, octet 4
tm	'00'B		circuit mode
itr	'10000'B		64 kBit/s
extb5	'0'B		extension bit, octet 5
l1id	'01'B		L1 identity, '01'B, octet 5
uil1	'01001'B		X.31 flag stuffing
extb5a	'?'B		extension bit, octet 5a
sb	'0'B		synchronous
neg	'0'B		negotiation not possible
ur	('00011'B, '00101'B, '01000'B)		2.4, 4.8, 9.6 kbit/s
extb5b1	*		extension bit, octet 5b1
ir	*		not checked
nictx	*		not checked
nicrx	*		not checked
fctx	*		not checked
fcrx	*		not checked
spb5b1	*		not checked
extb5c	*		not checked
nsb	*		not checked
ndb	*		not checked
pi	*		not checked
extb5d	*		not checked
dplxm	*		not checked
modemt	*		not checked
extb6	?		extension bit, octet 6
l2id	'10'B		L2 identity, '10'B, octet 6
uil2	('00110'B, '00111'B)		X.25 link layer or X.25 Multilink
extb7	?		extension bit, octet 7
l3id	'11'B		L3 identity, '11'B, octet 7
uil3	('00110'B, '00111'B)		X.25 packet layer, or X.25 packet level protocol for data terminal

Detailed Comments : Corresponding to the Bearer Services 51 ... 53 unrestricted digital information transfer capability.

Structured Type Constraint Declaration

Constraint Name : LocAreaId_anyomit
Structured Type : LAI
Derivation Path :
Encoding Variation :
Comments : Omittted constraint

Element Name	Element Value	Element Encoding	Comments
iei	*		
mcc	*		
mnc	*		
lac	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : LocAreaId(mcc, mnc, lac : OCTETSTRING)
Structured Type : LAI
Derivation Path :
Encoding Variation :
Comments : Cell A default value for L3 test

Element Name	Element Value	Element Encoding	Comments
iei	–		not used in SI3
mcc	mcc		mobile country code
mnc	mnc		mobile network code
lac	lac		location area code, Cell A

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : LocAreaIdiei(mcc, mnc, lac : OCTETSTRING)
Structured Type : LAI
Derivation Path :
Encoding Variation :
Comments : Cell A default value for L3 test

Element Name	Element Value	Element Encoding	Comments
iei	’00010011’B		
mcc	mcc		mobile country code
mnc	mnc		mobile network code
lac	lac		location area code, Cell A

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : LocUpType(locup : B_2)
Structured Type : LUT
Derivation Path :
Encoding Variation :
Comments : location updating type

Element Name	Element Value	Element Encoding	Comments
foreq	’?’B		no follow−on request pending
sprb	’0’B		spare bit ’0’B
lut	locup		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g01
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’00000000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00000000’B		
mac_2n	’00111111’B		
mac_1n	’11111110’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g02
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’10000000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’10000000’B		
mac_4n	’00100000’B		
mac_3n	’00000000’B		
mac_2n	’00000000’B		
mac_1n	’00000101’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g03
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’01000000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00000010’B		
mac_4n	’00000000’B		
mac_3n	’00000000’B		
mac_2n	’00000000’B		
mac_1n	’01100101’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g04
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’00000001’B		
mac_7n	’00000000’B		
mac_6n	’01000010’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00000001’B		
mac_2n	’01110000’B		
mac_1n	’00000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g05
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’01001000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00001101’B		
mac_2n	’01000100’B		
mac_1n	’00000001’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g06
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’11111111’B		
mac_7n	’10000000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00000000’B		
mac_2n	’00011111’B		
mac_1n	’00000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g07
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’11111000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00000000’B		
mac_2n	’00011111’B		
mac_1n	’00000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g08
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’00000000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00001111’B		
mac_2n	’11111110’B		
mac_1n	’00000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma1_g09
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		hopping
mac_8n	’11111111’B		
mac_7n	’11110000’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	’00000000’B		
mac_3n	’00000000’B		
mac_2n	’00000000’B		
mac_1n	’00000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g01
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00111111’B		
mac_7n	’11111100’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g02
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00000000’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	’00001111’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g03
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00000000’B		
mac_7n	’00011111’B		
mac_6n	’00000000’B		
mac_5n	’00000000’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g04
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00000000’B		
mac_7n	’00001010’B		
mac_6n	’10101010’B		
mac_5n	’00000000’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g05
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00010101’B		
mac_7n	’01000000’B		
mac_6n	’00000000’B		
mac_5n	’10101000’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g06
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00011010’B		
mac_7n	’10100000’B		
mac_6n	’00000000’B		
mac_5n	’00011100’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g07
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00011100’B		
mac_7n	’00000011’B		
mac_6n	’10011100’B		
mac_5n	’00000000’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g08
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00000001’B		
mac_7n	’00100100’B		
mac_6n	’10010000’B		
mac_5n	’00011111’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma2_g09
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’04’O		hopping
mac_8n	’00110000’B		
mac_7n	’00000011’B		
mac_6n	’11010000’B		
mac_5n	’00001111’B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g01
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001110’B		
mac_7n	’11111111’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g02
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00000100’B		
mac_7n	’00000011’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g03
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001010’B		
mac_7n	’10100000’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g04
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00000111’B		
mac_7n	’11000000’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g05
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001010’B		
mac_7n	’10100101’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g06
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001111’B		
mac_7n	’00001011’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g07
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001010’B		
mac_7n	’11110011’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g08
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001111’B		
mac_7n	’00101111’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Ma3_g09
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		hopping
mac_8n	’00001111’B		
mac_7n	’11101110’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Mi_01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : used as a comprehension required IE

Element Name	Element Value	Element Encoding	Comments
iei	’00000000’B		comprehension required IEI
iel	’01’O		length = 1
idigit_1	’1110’B		arbitrary contents
oei	’1’B		
toi	’111’B		
idigits_other	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Mi_02
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : used as an unknown IEI.

Element Name	Element Value	Element Encoding	Comments
iei	’10101110’B		unknown IEI
iel	–		
idigit_1	–		
oei	–		
toi	–		
idigits_other	–		

Detailed Comments : used in TC_26_5_6_1_1.

Structured Type Constraint Declaration

Constraint Name : Mi_05
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : used as an unknown IE

Element Name	Element Value	Element Encoding	Comments
iei	’00000010’B		’02’O
iel	’E0’O		
idigit_1	’1001’B		
oei	’0’B		
toi	’000’B		
idigits_other	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Mi_06
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : used as an unknown IEI.

Element Name	Element Value	Element Encoding	Comments
iei	’00010011’B		unknown IEI
iel	’02’O		
idigit_1	’1010’B		arbitrary value
oei	’0’B		arbitrary value
toi	’111’B		arbitrary value
idigits_other	’78’O		arbitrary value

Detailed Comments : used in TC_26_5_6_1_2.

Structured Type Constraint Declaration

Constraint Name : MiImei_01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : IMEI

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’08’O		
idigit_1	OC_FirstDigi(TSPX_IMEI)		
oei	’1’B		length of IMEI (15 digits) is odd
toi	’010’B		IMEI is used
idigits_other	OC_OtherDigi(TSPX_IMEI)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImeisv_01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : TSPX_IMEISV

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’09’O		
idigit_1	OC_FirstDigi(TSPX_IMEISV)		
oei	’0’B		length of IMEISV (16 digits) is even
toi	’011’B		IMEISV is used
idigits_other	OC_OtherDigi(TSPX_IMEISV)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImeisv_01iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : TSPX_IMEISV

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’09’O		
idigit_1	OC_FirstDigi(TSPX_IMEISV)		
oei	’0’B		length of IMEISV (16 digits) is even
toi	’011’B		IMEISV is used
idigits_other	OC_OtherDigi(TSPX_IMEISV)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImsi_01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : the TSPX_IMSI is the IMSI of the MS under test

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct(((LENGTH_OF(TSPX_IMSI))/2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	’001’B		IMSI is used
idigits_other	OC_OtherDigi(TSPX_IMSI)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImsi_01iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : the TSPX_IMSI is the IMSI of the MS under test

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	OC_IntToOct(((LENGTH_OF(TSPX_IMSI))/2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	’001’B		IMSI is used
idigits_other	OC_OtherDigi(TSPX_IMSI)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImsi_02
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : This constraint is used in paging filling message. No mobile is paged (Type of identity is set to ’000’B, i.e. no identity).

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’01’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’000’B		no identity
idigits_other	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiImsi_31
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : An another IMSI differing from MiImsi_01for RR testing, which is shorter than the maximum length.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’05’O		
idigit_1	’0000’B		
oei	’1’B		odd
toi	’001’B		IMSI is used
idigits_other	’10102143’O		4 octets

Detailed Comments : IMSI has 9 digits: ’00 10 11 23 4’

Structured Type Constraint Declaration

Constraint Name : MiImsi_31iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : An another IMSI differing from MiImsi_01for RR testing, which is shorter than the maximum length.

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’05’O		
idigit_1	’0000’B		
oei	’1’B		odd
toi	’001’B		IMSI is used
idigits_other	’10102143’O		4 octets

Detailed Comments : IMSI has 9 digits: ’00 10 11 23 4’. The iei appears in the messages, e.g. location updating accept.

Structured Type Constraint Declaration

Constraint Name : MiImsi_r01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : An another IMSI differing from MiImsi_01 for RR testing.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’07’O		
idigit_1	’0000’B		
oei	’1’B		odd
toi	’001’B		IMSI is used
idigits_other	’981032547698’O		6 octets

Detailed Comments : IMSI has 13 digits: ’08 90 12 34 56 78 9’

Structured Type Constraint Declaration

Constraint Name : MiImsi_r01iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : An another IMSI differing from MiImsi_01 for RR testing.

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’07’O		
idigit_1	’0000’B		
oei	’1’B		odd
toi	’001’B		IMSI is used
idigits_other	’981032547698’O		6 octets

Detailed Comments : IMSI has 13 digits: ’08 90 12 34 56 78 9’

Structured Type Constraint Declaration

Constraint Name : MiMsi_omit
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : omit MSI for testing.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
idigit_1	–		
oei	–		
toi	–		
idigits_other	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiTmsi_01
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : default TMSI for testing.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’100’B		TMSI is used
idigits_other	TSPX_TMSI		4 octets long

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiTmsi_01iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : default TMSI for testing.

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’100’B		TMSI is used
idigits_other	TSPX_TMSI		4 octets long

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiTmsi_02
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : A new TMSI

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’100’B		TMSI is used
idigits_other	TSPX_TMSI1		new TMSI

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MiTmsi_02iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : A new TMSI

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’100’B		TMSI is used
idigits_other	TSPX_TMSI1		new TMSI

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_r01			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : A TMSI differs from MiTmsi_01			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’100’B		TMSI is used
idigits_other	OC_IncTmsi(TSPX_TMSI, ’01’O)		4 octets long
Detailed Comments : Note: the TSPX_TMSI + ’01’O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : MiTmsi_r02			
Structured Type : MI			
Derivation Path :			
Encoding Variation :			
Comments : default TMSI for testing with toi setting to no id.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’000’B		no identity
idigits_other	TSPX_TMSI		4 octets long
Detailed Comments :			

Structured Type Constraint Declaration

Constraint Name : MiTmsi_r02iei
Structured Type : MI
Derivation Path :
Encoding Variation :
Comments : default TMSI for testing with toi setting to no id.

Element Name	Element Value	Element Encoding	Comments
iei	’00010111’B		
iel	’05’O		
idigit_1	’1111’B		
oei	’0’B		
toi	’000’B		no identity
idigits_other	TSPX_TMSI		4 octets long

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_01
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : non hopping

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’00’O		non hopping
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_02
Structured Type : MA
Derivation Path : MoblAllc_01.
Encoding Variation :
Comments : hopping

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’01’O		hopping
mac_8n	’00000010’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_04
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping used in TC_26_6_4_2_2.

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’01’O		hopping
mac_8n	’00001110’B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_04man
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping used in TC_26_10_2_5

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’01’O		hopping
mac_8n	’00001110’B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A0
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with 0001 1111 1111 1111 1111
indicates all of the frequencies in CA of cell A with
ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’11111111’B		
mac_6n	’11111111’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A1
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : indicates all of the frequencies in CA of cell A with ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} except for the BCCH frequency 20.

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’11111111’B		
mac_6n	’11111011’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A3d
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : indicates all of the frequencies in CA of cell A ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} except 747 and 767.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’11111111’B		
mac_6n	’01111011’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_252
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with 0001 1100
indicates ARFCN_list={40,66,73,74,75,76,108,114}
to the ARFCN_list={73,74,75}.

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’01’O		
mac_8n	’00011100’B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_252d
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with 0111 0000 0
List_ARFCN={761,764,771,779,782,791,798,829,832} to the ARFCN_list={791,798,829}.

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’02’O		
mac_8n	’00000000’B		
mac_7n	’11100000’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_22
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with all of f's from cell allocation of cell B with except of {764,832,844}

Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		
iel	'02'O		
mac_8n	'00111111'B		
mac_7n	'01111111'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_281
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with
indicates to the ARFCN_list={73,74,75} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'03'O		
mac_8n	'00000000'B		MoblAllc_281d
mac_7n	'00111000'B		
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_281d
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with
indicates to the ARFCN_list={773,775,779} of cell allocation A.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	’00000000’B		
mac_7n	’00000111’B		
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_281e
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping sequence with EGSM frequencies. The frequencies which are used in the mobile hopping sequence are {0, 80, 1005, 1010} .

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’01’O		
mac_8n	’10111000’B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_281e2
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with
indicates to the ARFCN_list={20,66,78} of E−GSM cell allocation with
ARFCN_List={20,40,66,73,74,75,76,77,78,79,108,114}

Element Name	Element Value	Element Encoding	Comments
iei	−		
iel	’02’O		
mac_8n	’00000001’B		
mac_7n	’00000101’B		
mac_6n	−		
mac_5n	−		
mac_4n	−		
mac_3n	−		
mac_2n	−		
mac_1n	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_282
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with
indicates to the Complete Cell Allocation of cell A with except for BCCH−f

Element Name	Element Value	Element Encoding	Comments
iei	−		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’11111111’B		
mac_6n	’11111011’B		
mac_5n	−		
mac_4n	−		
mac_3n	−		
mac_2n	−		
mac_1n	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_B1
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with 1111 1111 1111 1111
ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
mac_8n	’11111111’B		
mac_7n	’11111111’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_B1iei
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with ARFCN_list={14,18,22,31,40}.

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’01’O		
mac_8n	’10100111’B		(14,18,22,31,40)
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_Be1(par_ma: BITSTRING)
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with par_ma

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’01’O		
mac_8n	par_ma		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_Be1iei(par_ma: BITSTRING)
Structured Type : MA
Derivation Path : MoblAllc_20_Be1.
Encoding Variation :
Comments : hopping with par_ma

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_Be2(par_ma1: BITSTRING; par_ma2: BITSTRING)
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with par_ma1 and par_ma2

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
mac_8n	par_ma1		
mac_7n	par_ma2		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_Be2iei(par_ma1: BITSTRING; par_ma2: BITSTRING)
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with par_ma1 and par_ma2

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’02’O		
mac_8n	par_ma1		
mac_7n	par_ma2		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A2
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with default Cell Allocation of HO cases and only one frequency in hopping

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	’00000001’B		(114) for GSM or (844) for DCS
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A2iei
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : hopping with 1000 0000 0000 0000
indicates from default Cell Allocation of HO cases with the ARFCN_List={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} the ARFCN_list={114}

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’00000000’B		
mac_6n	’00000000’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_20_A3
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : indicates all of the frequencies in CA of cell A
ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} except 20 and 52.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	’00000001’B		
mac_7n	’11111110’B		
mac_6n	’11111011’B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_omit
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
mac_8n	–		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r01
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’02’O		
mac_8n	’00000011’B		
mac_7n	’11111011’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r02
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’02’O		
mac_8n	’00000111’B		
mac_7n	’11100011’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r03
Structured Type : MA
Derivation Path : MoblAllc_r01.
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iel	’01’O		
mac_8n	’00000001’B		
mac_7n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r04
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’02’O		
mac_8n	’00000001’B		
mac_7n	’11000111’B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r05
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_1 for immediate assignment command

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma1) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma1) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma1) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r06
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_1 after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma2) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma2) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma2) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r07
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_1 and TC_26_6_13_2 before time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma3) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma3) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma3) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r08
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_2 for immediate asignment command

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma4) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma4) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma4) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r09
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_2 after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma5) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma5) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma5) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r10
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_3 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma6) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma6) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma6) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r11
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_3 for frequency redifinition

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma7) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma7) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma7) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r12
Structured Type : MA
Derivation Path : MoblAllc_r11.
Encoding Variation :
Comments : used in TC_26_6_13_3 for assignment command after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma8) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma8) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma8) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r13
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_3 for assignment command before time

Element Name	Element Value	Element Encoding	Comments
iei	’00100001’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma9) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma9) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma9) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r14
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_4 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma10) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma10) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma10) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r15
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_4 for frequency redifinition

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma11) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma11) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma11) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r16
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_4 for assignment command after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma12) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma12) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma12) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r17
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_4 for assignment command before time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma13) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma13) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma13) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r18
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_5 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma14) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma14) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma14) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r18iei
Structured Type : MA
Derivation Path : MoblAllc_r05.MoblAllc_r18.
Encoding Variation :
Comments : used in TC_26_6_13_5 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r20
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_5 for handover before time

Element Name	Element Value	Element Encoding	Comments
iei	’00100001’B		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma16) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma16) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma16) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r21
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_6 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma17) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma17) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma17) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r22
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_6 for handover after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma18) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma18) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma18) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r23
Structured Type : MA
Derivation Path :
Encoding Variation :
Comments : used in TC_26_6_13_6 for handover before time

Element Name	Element Value	Element Encoding	Comments
iei	’00100001’B		
iel	’03’O		
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma19) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma19) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma19) MOD 256), 8)		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r24
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_7 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma20) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma20) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma20) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r25
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_7 for frequency redifinition

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma21) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma21) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma21) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r26
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_7 for HANDOVER COMMAND after time

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma22) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma22) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma22) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r27
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_7 for HANDOVER COMMAND before time

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma23) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma23) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma23) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r28
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_8 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma24) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma24) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma24) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r29
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_8 for frequency redifinition

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma25) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma25) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma25) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r30
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_8 for HANDOVER COMMAND after time

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma26) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma26) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma26) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r30iei
Structured Type : MA
Derivation Path : MoblAllc_r05.MoblAllc_r30.
Encoding Variation :
Comments : used in TC_26_6_13_8 for HANDOVER COMMAND after time

Element Name	Element Value	Element Encoding	Comments
iei	’01110010’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r31
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_8 for HANDOVER COMMAND before time

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma27) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma27) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma27) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r31iei
Structured Type : MA
Derivation Path : MoblAllc_r05.MoblAllc_r31.
Encoding Variation :
Comments : used in TC_26_6_13_8 for HANDOVER COMMAND before time

Element Name	Element Value	Element Encoding	Comments
iei	’00100001’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r32
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_9 for immediate assignment, after time

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma28) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma28) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma28) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MoblAllc_r33
Structured Type : MA
Derivation Path : MoblAllc_r05.
Encoding Variation :
Comments : used in TC_26_6_13_10 for immediate assignment

Element Name	Element Value	Element Encoding	Comments
mac_8n	INT_TO_BIT((OC_OctToInt(TSPX_Ma30) / 65536), 8)		
mac_7n	INT_TO_BIT(((OC_OctToInt (TSPX_Ma30) / 256) MOD 256), 8)		
mac_6n	INT_TO_BIT((OC_OctToInt(TSPX_Ma30) MOD 256), 8)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_01
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing no measurement results.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	(’000’B, ’111’B)		no result or not available for serving cell
rxlev_nc1	’000000’B		received signal strength on nc1
bcchfrq_nc1	’00000’B		bcch frequency position of nc1
bsic_nc1	’000000’B		base station identity code of nc1
rxlev_nc2	’000000’B		received signal strength on nc2
bcchfrq_nc2	’00000’B		bcch frequency position of nc2
bsic_nc2	’000000’B		base station identity code of nc2
rxlev_nc3	’000000’B		received signal strength on nc3
bcchfrq_nc3	’00000’B		bcch frequency position of nc3
bsic_nc3	’000000’B		base station identity code of nc3
rxlev_nc4	’000000’B		received signal strength on nc4
bcchfrq_nc4	’00000’B		bcch frequency position of nc4
bsic_nc4	’000000’B		base station identity code of nc4
rxlev_nc5	’000000’B		received signal strength on nc5
bcchfrq_nc5	’00000’B		bcch frequency position of nc5
bsic_nc5	’000000’B		base station identity code nc5
rxlev_nc6	’000000’B		received signal strength on nc6
bcchfrq_nc6	’00000’B		bcch frequency position of nc6
bsic_nc6	’000000’B		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_02
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE matching any value.

Element Name	Element Value	Element Encoding	Comments
ba_used	?		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	?		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	?		no result
rxlev_nc1	*		received signal strength on nc1
bcchfrq_nc1	*		bcch frequency position of nc1
bsic_nc1	*		base station identity code of nc1
rxlev_nc2	*		received signal strength on nc2
bcchfrq_nc2	*		bcch frequency position of nc2
bsic_nc2	*		base station identity code of nc2
rxlev_nc3	*		received signal strength on nc3
bcchfrq_nc3	*		bcch frequency position of nc3
bsic_nc3	*		base station identity code of nc3
rxlev_nc4	*		received signal strength on nc4
bcchfrq_nc4	*		bcch frequency position of nc4
bsic_nc4	*		base station identity code of nc4
rxlev_nc5	*		received signal strength on nc5
bcchfrq_nc5	*		bcch frequency position of nc5
bsic_nc5	*		base station identity code nc5
rxlev_nc6	*		received signal strength on nc6
bcchfrq_nc6	*		bcch frequency position of nc6
bsic_nc6	*		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	?		bcch frequency position of nc1
bsic_nc1	?		base station identity code of nc1
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	?		bcch frequency position of nc2
bsic_nc2	?		base station identity code of nc2
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	?		bcch frequency position of nc3
bsic_nc3	?		base station identity code of nc3
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	?		bcch frequency position of nc4
bsic_nc4	?		base station identity code of nc4
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	?		bcch frequency position of nc5
bsic_nc5	?		base station identity code nc5
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	?		bcch frequency position of nc6
bsic_nc6	?		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03a
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results.

Element Name	Element Value	Element Encoding	Comments
ba_used	’0’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	?		
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	?		bcch frequency position of nc1
bsic_nc1	?		base station identity code of nc1
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	?		bcch frequency position of nc2
bsic_nc2	?		base station identity code of nc2
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	?		bcch frequency position of nc3
bsic_nc3	?		base station identity code of nc3
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	?		bcch frequency position of nc4
bsic_nc4	?		base station identity code of nc4
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	?		bcch frequency position of nc5
bsic_nc5	?		base station identity code nc5
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	?		bcch frequency position of nc6
bsic_nc6	?		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03e1
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results for EGSM.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00001’B		arfcn=26
bsic_nc1	’001011’B		ncc=1, bcc=3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00010’B		arfcn= 38
bsic_nc2	’001111’B		ncc=1, bcc= 7
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00100’B		arfcn= 990
bsic_nc3	’001101’B		ncc=1, bcc= 5
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	’00101’B		arfcn= 1003
bsic_nc4	’001001’B		ncc=1, bcc= 1
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	’00110’B		arfcn= 1005
bsic_nc5	’001111’B		ncc=1, bcc= 7
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	’00111’B		arfcn= 1020
bsic_nc6	’001101’B		ncc=1, bcc= 5

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03e2
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results for EGSM.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00010’B		arfcn= 26
bsic_nc1	’001011’B		ncc=1, bcc= 3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00011’B		arfcn= 38
bsic_nc2	’001111’B		ncc=1, bcc= 7
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00100’B		arfcn= 990
bsic_nc3	’001101’B		ncc=1, bcc= 5
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	’00101’B		arfcn= 1003
bsic_nc4	’001001’B		ncc=1, bcc= 1
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	’00110’B		arfcn= 1005
bsic_nc5	’001111’B		ncc=1, bcc= 7
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	’00001’B		arfcn= 0
bsic_nc6	’001100’B		ncc=1, bcc= 4

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03e3
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results for EGSM.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00010’B		arfcn= 26
bsic_nc1	’001011’B		ncc=1, bcc= 3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00011’B		arfcn= 38
bsic_nc2	’001111’B		ncc=1, bcc= 7
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00110’B		arfcn= 1003
bsic_nc3	’001001’B		ncc=1, bcc= 1
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	’01000’B		arfcn= 1005
bsic_nc4	’001111’B		ncc=1, bcc= 7
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	’01000’B		arfcn= 1020
bsic_nc5	’001101’B		ncc=1, bcc= 5
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	’00001’B		arfcn= 0
bsic_nc6	’001100’B		ncc=1, bcc= 4

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03e4
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results for EGSM.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00010’B		arfcn= 26
bsic_nc1	’001011’B		ncc=1, bcc= 3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00011’B		arfcn= 38
bsic_nc2	’001111’B		ncc=1, bcc= 7
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00110’B		arfcn= 990
bsic_nc3	’001101’B		ncc=1, bcc= 5
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	’00111’B		arfcn= 1003
bsic_nc4	’001001’B		ncc=1, bcc= 1
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	’01000’B		arfcn= 1005
bsic_nc5	’001111’B		ncc=1, bcc= 7
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	’00001’B		arfcn= 0
bsic_nc6	’001100’B		ncc=1, bcc= 4

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_03e5
Structured Type : MSRR
Derivation Path :
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results for EGSM.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’110’B		6 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00010’B		arfcn= 26
bsic_nc1	’001011’B		ncc=1, bcc= 3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00011’B		arfcn= 38
bsic_nc2	’001111’B		ncc=1, bcc= 7
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00101’B		arfcn= 990
bsic_nc3	’001101’B		ncc=1, bcc= 5
rxlev_nc4	?		received signal strength on nc4
bcchfrq_nc4	’00110’B		arfcn= 1003
bsic_nc4	’001001’B		ncc=1, bcc= 1
rxlev_nc5	?		received signal strength on nc5
bcchfrq_nc5	’00111’B		arfcn= 1005
bsic_nc5	’001111’B		ncc=1, bcc= 7
rxlev_nc6	?		received signal strength on nc6
bcchfrq_nc6	’00001’B		arfcn= 0
bsic_nc6	’001100’B		ncc=1, bcc= 4

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_04
Structured Type : MSRR
Derivation Path : MsrResult_03.
Encoding Variation :
Comments : A measurement results IE containing 4 measurement results.

Element Name	Element Value	Element Encoding	Comments
no_nc	’100’B		4 results
bcchfrq_nc1	(’00000’B, ’00001’B, ’00011’B, ’00100’B)		Position 0 or 1 or 3 or 4
bsic_nc1	(’001011’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 7 or 1
bcchfrq_nc2	(’00000’B, ’00001’B, ’00011’B, ’00100’B)		Position 0 or 1 or 3 or 4
bsic_nc2	(’001011’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 7 or 1
bcchfrq_nc3	(’00000’B, ’00001’B, ’00011’B, ’00100’B)		Position 0 or 1 or 3 or 4
bsic_nc3	(’001011’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 7 or 1
bcchfrq_nc4	(’00000’B, ’00001’B, ’00011’B, ’00100’B)		Position 0 or 1 or 3 or 4
bsic_nc4	(’001011’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 7 or 1
rxlev_nc5	’000000’B		received signal strength on nc5
bcchfrq_nc5	’00000’B		bcch frequency position of nc5
bsic_nc5	’000000’B		base station identity code nc5
rxlev_nc6	’000000’B		received signal strength on nc6
bcchfrq_nc6	’00000’B		bcch frequency position of nc6
bsic_nc6	’000000’B		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_04e
Structured Type : MSRR
Derivation Path : MsrResult_03.
Encoding Variation :
Comments : A measurement results IE containing 3 measurement results for EGSM

Element Name	Element Value	Element Encoding	Comments
no_nc	’100’B		3 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	’00001’B		arfcn= 26
bsic_nc1	’001011’B		ncc=1, bcc= 3
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	’00011’B		arfcn= 990
bsic_nc2	’001101’B		ncc=1, bcc= 5
rxlev_nc3	?		received signal strength on nc3
bcchfrq_nc3	’00110’B		arfcn= 1003
bsic_nc3	’001001’B		ncc=1, bcc= 1

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_05
Structured Type : MSRR
Derivation Path : MsrResult_03.
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results and DTX was used.

Element Name	Element Value	Element Encoding	Comments
dtx_used	’1’B		dtx was used
bcchfrq_nc1	(’00000’B, ’00011’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B)		Position 0 or 3 or 4 or 5 or 6 or 7
bsic_nc1	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1
bcchfrq_nc2	(’00000’B, ’00011’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B)		Position 0 or 3 or 4 or 5 or 6 or 7
bsic_nc2	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1
bcchfrq_nc3	(’00000’B, ’00011’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B)		Position 0 or 3 or 4 or 5 or 6 or 7
bsic_nc3	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1
bcchfrq_nc4	(’00001’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B, ’01000’B)		Position 1 or 4 or 5 or 6 or 7 or 8
bsic_nc4	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1
bcchfrq_nc5	(’00001’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B, ’01000’B)		Position 1 or 4 or 5 or 6 or 7 or 8
bsic_nc5	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1
bcchfrq_nc6	(’00001’B, ’00100’B, ’00101’B, ’00110’B, ’00111’B, ’01000’B)		Position 1 or 4 or 5 or 6 or 7 or 8
bsic_nc6	(’001011’B, ’001101’B, ’001111’B, ’001001’B)		ncc=1 bcc=3 or 5 or 7 or 1

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_06
Structured Type : MSRR
Derivation Path : MsrResult_03.MsrResult_05.
Encoding Variation :
Comments : A measurement results IE containing 6 measurement results and DTX is not checked.

Element Name	Element Value	Element Encoding	Comments
dtx_used	?		not check DTX

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : MsrResult_07
Structured Type : MSRR
Derivation Path : MsrResult_03.
Encoding Variation :
Comments : A measurement results IE containing 2 measurement results.

Element Name	Element Value	Element Encoding	Comments
ba_used	’1’B		
dtx_used	’0’B		dtx was not used
rxlev_fsc	?		
spr1	’0’B		spare bit
meas_valid	’0’B		measurement results valid
rxlev_ssc	?		
spr2	’0’B		spare bit
rxqual_fsc	?		
rxqual_ssc	?		
no_nc	’010’B		2 results
rxlev_nc1	?		received signal strength on nc1
bcchfrq_nc1	(’00000’B, ’00010’B)		bcch frequency position of nc1
bsic_nc1	(’001011’B, ’001101’B)		base station identity code of nc1
rxlev_nc2	?		received signal strength on nc2
bcchfrq_nc2	(’00000’B, ’00010’B)		bcch frequency position of nc2
bsic_nc2	(’001011’B, ’001101’B)		base station identity code of nc2
rxlev_nc3	’000000’B		received signal strength on nc3
bcchfrq_nc3	’00000’B		bcch frequency position of nc3
bsic_nc3	’000000’B		base station identity code of nc3
rxlev_nc4	’000000’B		received signal strength on nc4
bcchfrq_nc4	’00000’B		bcch frequency position of nc4
bsic_nc4	’000000’B		base station identity code of nc4
rxlev_nc5	’000000’B		received signal strength on nc5
bcchfrq_nc5	’00000’B		bcch frequency position of nc5
bsic_nc5	’000000’B		base station identity code nc5
rxlev_nc6	’000000’B		received signal strength on nc6
bcchfrq_nc6	’00000’B		bcch frequency position of nc6
bsic_nc6	’000000’B		base station identity code of nc6

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Pcmd_19(powerlevel:BITSTRING)
Structured Type : PCMD
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb	’000’B		spare bits
pl	powerlevel		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Pcmd_20(powerlevel : B_5)
Structured Type : PCMD
Derivation Path :
Encoding Variation :
Comments : PowerCmd used in synchronized and non synchronized HO cases.

Element Name	Element Value	Element Encoding	Comments
sprb	’011’B		spare bits
pl	powerlevel		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : PiSi_01
Structured Type : PI_SI
Derivation Path :
Encoding Variation :
Comments : calling party BCD number with arbitrary spare bits

Element Name	Element Value	Element Encoding	Comments
extb	’1’B		
pi	’00’B		presentation indicator
sp3b	’110’B		arbitrary spare bits
si	’00’B		screening indicator

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Pm(pgm : B_2)
Structured Type : PM
Derivation Path :
Encoding Variation :
Comments : normal paging mode

Element Name	Element Value	Element Encoding	Comments
sprb	’00’B		spare bits
pgm	pgm		page mode

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Pm_02
Structured Type : PM
Derivation Path :
Encoding Variation :
Comments : normal paging mode with arbitrary spare bits.

Element Name	Element Value	Element Encoding	Comments
sprb	’11’B		arbitrary spare bits
pgm	’00’B		normal page mode

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProcessUSSData_02(Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : Return Result for Process Unstructured SS Data

Element Name	Element Value	Element Encoding	Comments
comp_part1	prevbits		Octet string before the value of invoke ID, has to be set acc. to length IE
invokeId	Invkid		
comp_part2	follbits		Octet string after the value of invoke ID, has to be set acc. to length IE
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProcessUSSRequest_02(Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : Reject or Return Error for Process Unstructured SS request

Element Name	Element Value	Element Encoding	Comments
comp_part1	prevbits		Octet string before the value of invoke ID, has to be set acc. to length IE
invokeId	Invkid		
comp_part2	follbits		Octet string after the value of invoke ID, has to be set acc. to length IE
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProgInd_omit
Structured Type : PI
Derivation Path :
Encoding Variation :
Comments : Omitted Progress Indicator.

Element Name	Element Value	Element Encoding	Comments
iei	–		’00011110’B
iel	–		
extb3	–		extension bit (’0’B)
cs	–		coding standard
spb	–		arbitrary spare bit
loc	–		location
extb4	–		extension bit (’0’B)
prd	–		progress description

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProgInd_01
Structured Type : PI
Derivation Path :
Encoding Variation :
Comments : Progress Indicator with progress description #8 (inband info now available)

Element Name	Element Value	Element Encoding	Comments
iei	’00011110’B		’00011110’B
iel	’02’O		
extb3	’1’B		extension bit (’0’B)
cs	’11’B		coding standard
spb	’1’B		arbitrary spare bit
loc	’0000’B		location
extb4	’1’B		extension bit (’0’B)
prd	’0001000’B		progress description

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProgInd_02
Structured Type : PI
Derivation Path :
Encoding Variation :
Comments : Progress Indicator containing progress indicator #4.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
extb3	’1’B		extension bit (’0’B)
cs	’11’B		coding standard
spb	’0’B		spare bit
loc	’0001’B		
extb4	’1’B		extension bit (’0’B)
prd	’0000100’B		call has return to PLMN/ISDN

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProgInd_03
Structured Type : PI
Derivation Path :
Encoding Variation :
Comments : Progress Indicator containing progress indicator #8.

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
extb3	’1’B		extension bit (’0’B)
cs	’11’B		coding standard
spb	’0’B		spare bit
loc	’0001’B		
extb4	’1’B		extension bit (’0’B)
prd	’0001000’B		inband information available (#8)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ProgInd_03iei
Structured Type : PI
Derivation Path :
Encoding Variation :
Comments : Progress Indicator containing progress indicator #8.

Element Name	Element Value	Element Encoding	Comments
iei	’00011110’B		
iel	’02’O		
extb3	’1’B		extension bit (’0’B)
cs	’11’B		coding standard
spb	’0’B		spare bit
loc	’0001’B		
extb4	’1’B		extension bit (’0’B)
prd	’0001000’B		inband information available (#8)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RachCntrlPara(maxtx : B_2; txint : B_4; re : B_1)
Structured Type : RACHCP
Derivation Path :
Encoding Variation :
Comments : Default value for L 3 testing.

Element Name	Element Value	Element Encoding	Comments
maxrtx	maxtx		
txint	txint		
cba	’0’B		not barred
re	re		
acc_2	’00000’B		access not barred
ec	’0’B		emergency call allowed
acc_1	’0000000000’B		access not barred

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RachCntrlPara_01
Structured Type : RACHCP
Derivation Path :
Encoding Variation :
Comments : Default value for L 3 testing.

Element Name	Element Value	Element Encoding	Comments
maxrtx	’00’B		Max−retrans = 1
txint	’0010’B		TX−integer=5
cba	’0’B		not barred
re	’0’B		reestablishment allowed
acc_2	’00000’B		access not barred
ec	’0’B		emergency call allowed
acc_1	’0000000000’B		access not barred

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RachCntrlPara_r01
Structured Type : RACHCP
Derivation Path :
Encoding Variation :
Comments : Call reestablishment is not allowed in the cell.

Element Name	Element Value	Element Encoding	Comments
maxrtx	’00’B		Max−retrans = 1
txint	’0010’B		TX−integer=5
cba	’0’B		not barred
re	’1’B		no reestablishment
acc_2	’00000’B		access not barred
ec	’0’B		emergency call allowed
acc_1	’0000000000’B		access not barred

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegisterSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2210201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301C02010AA01704012A 3012302083011084010785 058100342143870105’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegisterSSRslt_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’308002010AA0800401213 0803080830160840107850 581003421430000000000 000000000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegisterSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’02010A’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegisterSSRej_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A4800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’8101030000’O		resource limitation
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegPasswdSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’308002011112043938373 600000000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegPasswdSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’020113’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegPasswdSSErr_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0201260000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RegPasswdSSErr_03(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3090201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0201250A0102’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI3RestOctetDef
Structured Type : SI3RO
Derivation Path :
Encoding Variation :
Comments : Default value for L 3 testing.

Element Name	Element Value	Element Encoding	Comments
pi	’0’B		
cbq	’0’B		
cro	’101011’B		
to	’001’B		
pt	’01011’B		
poi	’0’B		
po	’01’B		
ti	’0’B		
ecsc	’1’B		
spr1	’011’B		
spr2	’00101011’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI3RestOctet2ter
Structured Type : SI3RO
Derivation Path :
Encoding Variation :
Comments : Default value for L 3 testing.

Element Name	Element Value	Element Encoding	Comments
pi	’1’B		
cbq	’0’B		
cro	’000000’B		
to	’000’B		
pt	’00000’B		
poi	’1’B		
po	’00’B		
ti	’1’B		
ecsc	’1’B		
spr1	’011’B		
spr2	’00101011’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI3RestOctet_inv
Structured Type : SI3RO
Derivation Path :
Encoding Variation :
Comments : Invalid rest octet (not all ’2B’O).

Element Name	Element Value	Element Encoding	Comments
pi	’0’B		
cbq	’0’B		
cro	’101011’B		
to	’001’B		
pt	’01011’B		
poi	’0’B		
po	’01’B		
ti	’0’B		
ecsc	’1’B		
spr1	’011’B		
spr2	’11101110’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI4RestOctetDef
Structured Type : SI4RO
Derivation Path :
Encoding Variation :
Comments : Default value for L 3 testing.

Element Name	Element Value	Element Encoding	Comments
pi	’0’B		
cbq	’0’B		
cro	’101011’B		
to	’001’B		
pt	’01011’B		
poi	’0’B		
po	’01’B		
spr1	’01011’B		
spr2	’00101011’B		
spr3	’00101011’B		
spr4	’00101011’B		
spr5	’00101011’B		
spr6	’00101011’B		
spr7	’00101011’B		
spr8	’00101011’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI4RestOctet_CBMS
Structured Type : SI4RO
Derivation Path :
Encoding Variation :
Comments : Rest octets for SMSCB SysInf4 message.

Element Name	Element Value	Element Encoding	Comments
pi	’0’B		
cbq	’0’B		
cro	’101011’B		
to	’001’B		
pt	’01011’B		
poi	’0’B		
po	’01’B		
spr1	’01011’B		
spr2	’00101011’B		
spr3	–		
spr4	–		
spr5	–		
spr6	–		
spr7	–		
spr8	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SI4RestOctet_inv
Structured Type : SI4RO
Derivation Path :
Encoding Variation :
Comments : Invalid rest octet (not all ’2B’O).

Element Name	Element Value	Element Encoding	Comments
pi	’0’B		
cbq	’0’B		
cro	’101011’B		
to	’001’B		
pt	’01011’B		
poi	’0’B		
po	’01’B		
spr1	’01011’B		
spr2	’00101011’B		
spr3	’00101011’B		
spr4	’00101011’B		
spr5	’00101011’B		
spr6	’00101011’B		
spr7	’00101011’B		
spr8	’11101110’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SerialNumber_01
Structured Type : SERIAL_NUMBER
Derivation Path :
Encoding Variation :
Comments : Serial number for first SMSCB,
GSM 3.41, 9.3.2

Element Name	Element Value	Element Encoding	Comments
gs	’00’B		
message_code	’0000000000’B		
update_number	’0000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SerialNumber_02
Structured Type : SERIAL_NUMBER
Derivation Path :
Encoding Variation :
Comments : Serial number for second SMSCB,
GSM 3.41, 9.3.2

Element Name	Element Value	Element Encoding	Comments
gs	’00’B		
message_code	’0000000001’B		
update_number	’0000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SerialNumber_03
Structured Type : SERIAL_NUMBER
Derivation Path :
Encoding Variation :
Comments : Serial number for third SMSCB, same message code as second SMSCB but updated
GSM 3.41, 9.3.2

Element Name	Element Value	Element Encoding	Comments
gs	’00’B		
message_code	’0000000001’B		
update_number	’0001’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : USSDReq_01(Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING; ussdString: IA5String)

Structured Type : Component_T

Derivation Path :

Encoding Variation :

Comments : ReturnResult for Process Unstructured SS request

Element Name	Element Value	Element Encoding	Comments
comp_part1	prevbits		Octet string before the value of invoke ID
invokeId	Invkid		
comp_part2	follbits		
comp_part3	OC_CodingOfUssdString(ussdString)		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : USSDReq_03(Invkid : OCTETSTRING; ussdstring: IA5String)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : Invoke for UnstructuredSS−Request

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A11E0201’O		Octet string before the value of invoke ID
invokeId	Invkid		arbitrarily chosen
comp_part2	’02013C0F’O		Octet string after the value of invoke ID, has to be set acc. to length IE
comp_part3	OC_CodingOfUssdString(ussdstring)		string "Type *70*635*562# and send" arbitrarily chosen 26 characters = 182 bits −> 23 octets
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : USSDReq_06(Invkid : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : Unstructured SS − Request

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2030201’O		Octet string before the value of invoke ID
invokeId	Invkid		arbitrarily chosen
comp_part2	−		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : EraseSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A21D0201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301802010BA0800401283 08030808301608401040000 000000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : EraseSSRslt_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2140201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’300F02010BA00A04012B3 0053003840104’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : EraseSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’02010B’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : EraseSSRej_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A4800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’8101030000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CF all sychronous services

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301402010CA0800401203 0083006820168840107000 00000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSRslt_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFU all basic services

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2180201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’308002010CA0800401213 00530038401070000000’ O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSRslt_03(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BAOC all synchronous services

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A21B0201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’308002010CA1800401923 00830068201688401070000 00000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSRslt_04(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BICRoam for all basic service groups.

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2180201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301302010CA10E04019B 3080308084010700000000 ’O		mixed form
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BOIC

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’020113’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : ActivateSSErr_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BOIC

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0201260000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFC speech

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A21B0201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301602010DA0800401283 08030068301108401060000 00000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSRslt_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFNRc all facsimile

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2190201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’301402010DA00F04012B300A3080830160840106000 0’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSRslt_03(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : DeactivateSSRslt for Speech

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’300C02010DA107300530 038301100000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSRslt_04(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : DeactivateSSRslt for all facsimile

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’300C02010DA107300530 038301600000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0201130000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : DeactivateSSErr_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’020126’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_01
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1270201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1188 1013C8202008C83016484 0200FA8501008601008702 02580000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_02
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1250201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1168 10100820100830164840 20 3E88501008601008701000 000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_03
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1290201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A11A810209C4820200A0830200C88402138885010086010 0870202580000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_04
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1240201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1158 1010A82010A8301648401 0085016486010A87010A0 000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_05
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1270201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1188 1017D8202012C83016484 0200FA85016486010A870 2012C0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_06
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1240201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1158101008201008301008401008501008601008701000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_07
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1250201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1168 1010082010083016484020 3E88501008601008701000 000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_08
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1270201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A11881013C8202008C830164840200FA8501008601008702 02580000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_09
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1240201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A11581010A82010A830164840100850100861008701 0A0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_10
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1270201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A11881017D8202012C830164840200FA8501008601008702012C0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_11
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1260201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1178 1016482020118830164840 16485010086010087020258 0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_12
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1260201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1178101648202008C830164840132850100860100870202580000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_13
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1250201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1168 1016482020190830164840 1008501008601008701000 000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_14
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1190201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3011800172A1808101648202019083016400 0’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_15
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1250201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1168 1014682020190830164840 1008501008601008701000 000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_16
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1260201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1178 102008282020190830164840 1008501008601008701000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_17
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1260201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1178 10200BE82020190830164 840100850100860100870 1000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_18
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1260201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D3080800172A1178 10201228202019083016484 01008501008601008701000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_19
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1800201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D301B800172A1168101648202022683016484016485010086010087016400 00’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_20
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1800201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D301B800172A11681010A8202012C830164840100850100860100870100 0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : FwdChAdvSS_21
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : AoC− Charging, charging value is 0.

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1800201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02017D301A800172A1158101008201008301008401008501008601008701000000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : GetPasswdSS_01(linkid : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : getpassword

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A10C0201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’8001’O		
comp_part3	linkid		linked ID
comp_part4	’0201120A0100’O		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : GetPasswdSS_02(linkid : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : getpassword (enter new password)

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A10C0201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’8001’O		
comp_part3	linkid		linked ID
comp_part4	’0201120A0101’O		enter new password
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : GetPasswdSS_03(linkid : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : getpassword (enter new password again)

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A10C0201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’8001’O		
comp_part3	linkid		linked ID
comp_part4	’0201120A0102’O		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFB all basic services

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A20D0201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’308002010E8001040000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRslt_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFNRy Speech

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2190201’O		
invokeId	id		value of invoke id
comp_part2	’301402010EA30F300D830 1118401078505810034214 3’O		The network has to send an AddressString type International Number (= ’91’H) plus international prefix, country code and national (significant) number to the MS, (see TS GSM 02.82 section O.1)
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRslt_03(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BAIC

Element Name	Element Value	Element Encoding	Comments
comp_part1	'A20D0201'O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	'300802010EA203830111' O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRslt_04(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BAIC

Element Name	Element Value	Element Encoding	Comments
comp_part1	'A20B0201'O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	'300602010E800107'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSErr_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFNRc

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’020112’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSErr_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A3800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0201120000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRej_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A4800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’8101030000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : InterrogateSSRej_02(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A4060201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’810103’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_01
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : incoming call forwarded.

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1100201’O		Octet string before the value of invoke ID
invokeId	’01’O		abitrarily chosen
comp_part2	’02011030808101298501020000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_02
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFU provisioned, registered and active

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1800201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’02011030068101218401070000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_03
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFC provisioned, registered and active

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1100201’O		Octet string before the value of invoke ID
invokeId	’01’O		abitrarily chosen
comp_part2	’02011030808101288401070000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_04
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : CFNRc forwarded call

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1800201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’020110300681012B8501010000’O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_05
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : BI

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A10E0201’O		Octet string before the value of invoke ID
invokeId	’00’O		abitrarily chosen
comp_part2	’020110300681019984010 7’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_06(Invkid : OCTETSTRING; ussdstring: IA5String)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : UnstructuredSS−Notify

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A1140201’O		Octet string before the value of invoke ID
invokeId	Invkid		arbitrarily chosen
comp_part2	’02013D0F’O		
comp_part3	OC_CodingOfUssdString(u ssdstring)		string "Transaction OK" arbitrarily chosen 14 characters = 98 bits −> 13 octets
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : NotificationSS_08(Invkid : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : UnstructuredSS−Notify

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2030201’O		Octet string before the value of invoke ID
invokeId	Invkid		arbitrarily chosen
comp_part2	−		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : BuildMptySSRslt_01(id : OCTETSTRING)
Structured Type : Component_T
Derivation Path :
Encoding Variation :
Comments : ReturnResult for buildMPTY

Element Name	Element Value	Element Encoding	Comments
comp_part1	’A2800201’O		Octet string before the value of invoke ID
invokeId	id		value of invoke id
comp_part2	’0000’O		
comp_part3	−		
comp_part4	−		
comp_part5	−		
comp_part6	−		
comp_part7	−		
comp_part8	−		
comp_part9	−		
comp_part10	−		
comp_part11	−		
comp_part12	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RelTmdDif_omit
Structured Type : TDIF
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
value	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RelTmdDif_01 (ta_a: INTEGER)
Structured Type : TDIF
Derivation Path :
Encoding Variation :
Comments : ta_a: timing advance value in cell A.

Element Name	Element Value	Element Encoding	Comments
iei	’01111011’B		
iel	’01’O		OCTETSTRING [1]
value	OC_IntToOct(((2*ta_a + 10) MOD 256), 1)		one unit = 24/13 microseconds (in half bit periods)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Rqr1(Rr: BITSTRING; Fn: FN)
Structured Type : RQR
Derivation Path :
Encoding Variation :
Comments : not address the MS under test

Element Name	Element Value	Element Encoding	Comments
ra	INT_TO_BIT((BIT_TO_INT(Rr) + 1), 8)		
fn	OC_FnInc(Fn, 2)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Rqr2(Rr: BITSTRING; Fn: FN)
Structured Type : RQR
Derivation Path :
Encoding Variation :
Comments : To address the MS under test

Element Name	Element Value	Element Encoding	Comments
ra	Rr		
fn	Fn		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Rqr3
Structured Type : RQR
Derivation Path :
Encoding Variation :
Comments : not pertaining to the MS under test

Element Name	Element Value	Element Encoding	Comments
ra	’00000000’B		
fn	Fn_01		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Signal_01
Structured Type : SIGNAL
Derivation Path :
Encoding Variation :
Comments : signal value is arbitrarily selected.

Element Name	Element Value	Element Encoding	Comments
iei	’00110100’B		
sigv	’00000000’B		dial tone on

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Signal_02
Structured Type : SIGNAL
Derivation Path :
Encoding Variation :
Comments : Signal IE with value #7 "call waiting tone on"

Element Name	Element Value	Element Encoding	Comments
iei	’00110100’B		
sigv	’00000111’B		call waiting tone on

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : StartingTm_01(fn : FN)
Structured Type : STRT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’01111100’B		
fn	fn		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : StartingTm_omit
Structured Type : STRT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
fn	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SubAdd_01
Structured Type : SUBAD
Derivation Path :
Encoding Variation :
Comments : containing arbitrary spare bits

Element Name	Element Value	Element Encoding	Comments
extb	’1’B		extension bit
tos	’000’B		Type of subaddress
oei	’0’B		odd/even indicator
sp3b	’111’B		arbitrary spare bits
si	’5001’O		subaddress information

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Synchi_omit
Structured Type : SYNCHI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
nci	–		
rot	–		
si	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Synchi(rot : B_1; si : B_2)
Structured Type : SYNCHI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	’1101’B		
nci	’0’B		ignore out of range TA
rot	rot		report observed time difference
si	si		synchronisation type

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Synchi_01
Structured Type : SYNCHI
Derivation Path :
Encoding Variation :
Comments : coded as a comprehension required IEI.

Element Name	Element Value	Element Encoding	Comments
iei	’0000’B		
nci	’0’B		
rot	’0’B		
si	’00’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TimingAdv(bits : INTEGER)
Structured Type : TA
Derivation Path :
Encoding Variation :
Comments : Time Advance value is pameterized.

Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	’00’B		spare bits
value	INT_TO_BIT(bits, 6)		one unit = 48/13 microseconds (in 1 bit periods)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TimingAdv_iei(bits : INTEGER)
Structured Type : TA
Derivation Path :
Encoding Variation :
Comments : 0 time advance.

Element Name	Element Value	Element Encoding	Comments
iei	’01111101’B		
sprb	’00’B		spare bits
value	INT_TO_BIT(bits, 6)		one unit = 48/13 microseconds (in 1 bit periods)

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TimingAdv_inv
Structured Type : TA
Derivation Path :
Encoding Variation :
Comments : containing arbitrary spare bits

Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	’11’B		arbitrary spare bits
value	’000000’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TimingAdv_omit
Structured Type : TA
Derivation Path :
Encoding Variation :
Comments : Time Advance value is pameterized.

Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	–		
value	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_01
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used by the MS in the transaction initiated by the test system.

Element Name	Element Value	Element Encoding	Comments
ti_f	’1’B		
ti_v	’000’B		TI value

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_02
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used in the messages sent to the MS in the transaction initiated by test system.

Element Name	Element Value	Element Encoding	Comments
ti_f	’0’B		from network to MS
ti_v	’000’B		TI value

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_03
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used in the messages sent to the MS in the transaction initiated by test system.

Element Name	Element Value	Element Encoding	Comments
ti_f	’0’B		from network to MS
ti_v	’110’B		not refer to the active call

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_04
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : arbitrary value

Element Name	Element Value	Element Encoding	Comments
ti_f	’0’B		
ti_v	’011’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_05
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used by the MS in the transaction initiated by the test system.

Element Name	Element Value	Element Encoding	Comments
ti_f	’1’B		the MS to network
ti_v	’110’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_06
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
ti_f	’0’B		network to the MS
ti_v	’111’B		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_07(ti :TI_V)
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used in the messages sent to the MS in the transaction initiated by the MS.

Element Name	Element Value	Element Encoding	Comments
ti_f	’0’B		
ti_v	ti		TI value

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_08(ti : TI_V)
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used in the messages sent to the MS in the transaction initiated by the system simulator.

Element Name	Element Value	Element Encoding	Comments
ti_f	'1'B		from network to MS
ti_v	ti		TI value

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TI_09
Structured Type : TI
Derivation Path :
Encoding Variation :
Comments : used by the MS in the transaction initiated by the MS.

Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		
ti_v	?		TI value is selected by the MS when it starts the transaction

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tmsi_01
Structured Type : TMSI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
tmsi_val	TSPX_TMSI		default TMSI for testing

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r01 **Structured Type** : TMSI **Derivation Path** : **Encoding Variation** : **Comments** :			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		
tmsi_val	OC_IncTmsi(TSPX_TMSI, ’01’O)		no address the MS under test
Detailed Comments : Note: the TSPX_TMSI + ’01’O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r03 **Structured Type** : TMSI **Derivation Path** : **Encoding Variation** : **Comments** :			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		
tmsi_val	OC_IncTmsi(TSPX_TMSI, ’02’O)		
Detailed Comments : Note: the TSPX_TMSI + ’02’O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
Constraint Name : Tmsi_r04 **Structured Type** : TMSI **Derivation Path** : **Encoding Variation** : **Comments** :			
Element Name	**Element Value**	**Element Encoding**	**Comments**
iei	–		
tmsi_val	OC_IncTmsi(TSPX_TMSI, ’03’O)		
Detailed Comments : Note: the TSPX_TMSI + ’03’O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration

Constraint Name : Tmsi_r05
Structured Type : TMSI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
tmsi_val	OC_IncTmsi(TSPX_TMSI, ’04’O)		

Detailed Comments : Note: the TSPX_TMSI + ’04’O shall not be identical to TSPX_TMSI1

Structured Type Constraint Declaration

Constraint Name : TonNpi_01
Structured Type : TON_NPI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
extb	’0’B		extension bit
ton	’000’B		Type of number
npi	’0000’B		Numbering plan id

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TonNpi_02
Structured Type : TON_NPI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
extb	’1’B		extension bit
ton	’000’B		Type of number
npi	’0000’B		Numbering plan id

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TonNpi_03
Structured Type : TON_NPI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
extb	’1’B		extension bit
ton	’001’B		Type of number
npi	’0001’B		Numbering plan id

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TonNpi_04
Structured Type : TON_NPI
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
extb	’1’B		extension bit
ton	?		Type of number
npi	?		Numbering plan id

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : UnknownIE_01
Structured Type : UNKWN
Derivation Path :
Encoding Variation :
Comments : An invalid IE coded as comprehension required .

Element Name	Element Value	Element Encoding	Comments
iei	’00000000’B		
iel	’01’O		length = 1
contents	’54’O		arbitrary contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : UnknownIE_02
Structured Type : UNKWN
Derivation Path :
Encoding Variation :
Comments : An invalid FIE coded as unknown IE.

Element Name	Element Value	Element Encoding	Comments
iei	’01001100’B		
iel	’01’O		length = 1
contents	’FF’O		arbitrary contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : UnknownIE
Structured Type : CHD
Derivation Path :
Encoding Variation :
Comments : used as unkown IE

Element Name	Element Value	Element Encoding	Comments
iei	’01101001’B		
cht_schn	’00000’B		length
tn	’010’B		length
tsc	’101’B		arbitrary contents
hch	’1’B		
maio	’001100’B		
hsn	’101010’B		
spr	–		
arfcn	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_01(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_01(rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_02(rpmr: MR)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	RpAck_01(rpmr)		
rpdata	–		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_03(rpdat : RPDATA)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	rpdat		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_04(rpmr: MR)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	’02’O		
rpack	RpAck_02(rpmr)		
rpdata	–		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_05(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_05(rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_06(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_06(rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_07(rpmr: MR)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments : RP Error: Protocol Error, unspecified

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	–		
rperr	RpError_01(rpmr)		Protocol error, unspecified
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_08(rpmr: MR)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments : RP Error: Memory Capability Exceeded

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	–		
rperr	RpError_02(rpmr)		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_09
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments : RP_SMAA

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	–		
rperr	–		
rpsmma	RpSMMA_01		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_10(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_07(rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_12(tpda, rpoa_mt:BCDN; tpmr: MR; rpmr: MR; timezone : TZONES)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments : n –> ms, RP DATA(SMS–STATUS–REPORT)

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((25 + OC_LengthOfBCDN(tpda) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_09(rpoa_mt, tpda, tpmr, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_15(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; rpmr: MR; timezone : TZONES)

Structured Type : CPDATA

Derivation Path :

Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_12(tpoa1, rpoa_mt, smtype, text, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_16(tpoa1: BCDN; rpoa_mt: BCDN; text: IA5String; rpmr: MR; timezone : TZONES)

Structured Type : CPDATA

Derivation Path :

Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN(tpoa1) + OC_LengthOfBCDN(rpoa_mt)), 1)		
rpack	–		
rpdata	RpData_13(tpoa1, rpoa_mt, text, rpmr, timezone)		
rperr	–		
rpsmma	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : CpData_17(tpda,rpda : BCDN; tpud: TPUD)
Structured Type : CPDATA
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	−		
iel	?		
rpack	−		
rpdata	RpData_14(tpda, rpda,tpud)		
rperr	−		
rpsmma	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_01(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_01(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_01(tpoa1, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_03
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : ms−>n

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’000’B		ms −> n
rpmr	?		message reference
rpOaddr	RpOrigAddr_02		RP originator address
rpDaddr	RpDestAddr_02		RP destination address
rpusrdat	RpUsrData_02		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_05(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_01(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_03(tpoa1, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_06(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_01(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_04(tpoa1, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_07(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_01(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_05(tpoa1, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_08
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : ms−>n, status report requested

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’000’B		ms −> n
rpmr	?		message reference
rpOaddr	RpOrigAddr_02		RP originator address
rpDaddr	RpDestAddr_02		RP destination address
rpusrdat	RpUsrData_06		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_09(rpoa_mt, tpda:BCDN; tpmr: MR; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms, RP DATA(SMS−STATUS−REPORT)

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_01(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_07(tpda, tpmr, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_11(rpmr: MR; tpcom : SMCMD)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : ms−>n, RP data(SMS−COMMAND(Delete))

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’000’B		ms −> n
rpmr	OC_IntToOct((OC_OctToInt(rpmr) + 1), 1)		message reference
rpOaddr	RpOrigAddr_02		RP originator address
rpDaddr	RpDestAddr_02		RP destination address
rpusrdat	RpUsrData_09(tpcom)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_12(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_03(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_10(tpoa1, smtype, text, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_13(tpoa: BCDN; rpoa_mt: BCDN; text: IA5String; rpmr: MR; timezone : TZONES)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’001’B		n −> ms
rpmr	rpmr		message reference
rpOaddr	RpOrigAddr_03(rpoa_mt)		RP originator address
rpDaddr	RpDestAddr_01		RP destination address
rpusrdat	RpUsrData_11(tpoa, text, timezone)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpData_14(tpda: BCDN; rpda: BCDN; tpud: TPUD)
Structured Type : RPDATA
Derivation Path :
Encoding Variation :
Comments : ms−>n

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’000’B		ms −> n
rpmr	?		message reference
rpOaddr	RpOrigAddr_02		RP originator address
rpDaddr	RpDestAddr_03(rpda)		RP destination address
rpusrdat	RpUsrData_12(tpda,tpud)		RP−User data element

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpAck_01(rpmr: MR)
Structured Type : RPACK
Derivation Path :
Encoding Variation :
Comments : ms−>n

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’010’B		ms −> n , RP−ACK
rpmr	rpmr		message reference

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpAck_02(rpmr: MR)
Structured Type : RPACK
Derivation Path :
Encoding Variation :
Comments : RP_ACK n−>ms

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’011’B		RP_ACK n −> ms
rpmr	rpmr		message reference

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpError_01(rpmr: MR)
Structured Type : RPERR
Derivation Path :
Encoding Variation :
Comments : Protocol error, unspecified

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’100’B		RP_ERROR ms −> n
rpmr	rpmr		message reference
rpcau	RpCause_01		Protocol error, unspecified
rpusrdat	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpError_02(rpmr: MR)
Structured Type : RPERR
Derivation Path :
Encoding Variation :
Comments : Memory Capacity Exceeded

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’100’B		RP_ERROR ms −> n
rpmr	rpmr		message reference
rpcau	RpCause_02		Memory Capacity Exceeded
rpusrdat	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpCause_01
Structured Type : RPCAU
Derivation Path :
Encoding Variation :
Comments : ms−>n, Protocol error, unspecified, cuase number 111.

Element Name	Element Value	Element Encoding	Comments
iei	−		’01000010’B
iel	?		
extb2	’0’B		extension bit
rpcau_class	’110’B		cause class
rpcau_va	’1111’B		cause value
rpcau_di	*		Diagnostics

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpCause_02
Structured Type : RPCAU
Derivation Path :
Encoding Variation :
Comments : ms−>n, Memory Capacity Exceeded, cause number 22.

Element Name	Element Value	Element Encoding	Comments
iei	−		’01000010’B
iel	?		
extb2	’0’B		extension bit
rpcau_class	’001’B		cause class
rpcau_va	’0110’B		cause value
rpcau_di	*		Diagnostics

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpSMMA_01
Structured Type : RPSMMA
Derivation Path :
Encoding Variation :
Comments : ms−>n

Element Name	Element Value	Element Encoding	Comments
sprb	’00000’B		spare 5 bits M
rpmti	’110’B		n −> ms
rpmr	?		message reference

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_01(tpoa1:BCDN; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153 + OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_01(tpoa1, timezone)		
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_02
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	?		
tpdeliver	–		
tpsubmit	TpSubmit_01		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_03(tpoa1:BCDN; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_02(tpoa1, timezone)		class 2
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_04(tpoa1:BCDN; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153 + OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_03(tpoa1, timezone)		class 1
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_05(tpoa1:BCDN; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_04(tpoa1, timezone)		class 0
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_06
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	?		
tpdeliver	–		
tpsubmit	TpSubmit_02		status report requested
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_07(tpda:BCDN; mr: MR; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((19 + OC_LengthOfBCDN(tpda)), 1)		
tpdeliver	–		
tpsubmit	–		
tpstatus_rpt	TpStatusReport_01(tpda, mr, timezone)		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_09(tpcom : SMCMD)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments : SMS−COMMAND(Delete)

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	?		
tpdeliver	–		
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	tpcom		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_10(tpoa1: BCDN; smtype: INTEGER; text: IA5String; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_05(tpoa1, smtype, text, timezone)		
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_11(tpoa1: BCDN; text: IA5String; timezone : TZONES)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)		udl 160 characters
tpdeliver	TpDeliver_06(tpoa1, text, timezone)		
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpUsrData_12(tpda: BCDN; tpud: TPUD)
Structured Type : RPUSRDAT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
iei	–		’01000001’B
iel	?		
tpdeliver	–		
tpsubmit	TpSubmit_03(tpda,tpud)		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_01(tpoa1:BCDN; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’0’B		more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_01(tpoa1)		originator address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_01		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 octets
ud	OC_ComputeSMContents(160)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_02(tpoa1:BCDN; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’0’B		more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_01(tpoa1)		originator address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_02		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 octets
ud	OC_ComputeSMContents(160)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_03(tpoa1:BCDN; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’0’B		more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_01(tpoa1)		originator address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_03		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 octets
ud	OC_ComputeSMContents(160)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_04(tpoa1:BCDN; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’0’B		more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_01(tpoa1)		originator address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_04		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 octets
ud	OC_ComputeSMContents(160)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_05(tpoa: BCDN; smtype: INTEGER; text: IA5String; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’1’B		no more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_02(tpoa)		originator address
pid	Tppid_02(smtype)		protocol identifier
dcs	Tpdcs_01		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 characters
ud	OC_ComputeSMContentsSpecText(160, text)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpDeliver_06(tpoa: BCDN; text: IA5String; timezone : TZONES)
Structured Type : SMDLVR
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	’1’B		reply path
udhi	’0’B		TP User Data Header Indication
sri	’0’B		no status report indication
sprb2	’00’B		2 spare bits
mms	’1’B		no more messages to send
mti	’00’B		TP deliver
oa	SmOrigAddr_02(tpoa)		originator address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_01		data coding scheme
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
udl	’A0’O		data length 160 characters
ud	OC_ComputeSMContentsSpecText(160, text)		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpSubmit_01
Structured Type : SMSBMT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	?		no reply path
udhi	?		
srr	?		status report request
vpf	?		
rd	?		
mti	’01’B		TP submit
mr	?		TP message reference
da	SmDestAddr_01		destination address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_01		data coding scheme
vp1	?		
vp7	–		TP validity period, 7 octets
udl	?		data length max. 160 octets
ud	?		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpSubmit_02
Structured Type : SMSBMT
Derivation Path :
Encoding Variation :
Comments : status report requested

Element Name	Element Value	Element Encoding	Comments
rp	’0’B		no reply path
udhi	?		
srr	’1’B		status report request
vpf	?		
rd	?		
mti	’01’B		TP submit
mr	?		TP message reference
da	SmDestAddr_01		destination address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_01		data coding scheme
vp1	?		
vp7	–		TP validity period, 7 octets
udl	?		data length 160 octets
ud	?		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpSubmit_03(tpda: BCDN; tpud: TPUD)
Structured Type : SMSBMT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
rp	?		no reply path
udhi	?		
srr	?		status report request
vpf	’10’B		present and integer represented
rd	?		
mti	’01’B		TP submit
mr	?		TP message reference
da	SmDestAddr_02(tpda)		destination address
pid	Tppid_01		protocol identifier
dcs	Tpdcs_01		data coding scheme
vp1	’A7’O		TP validity period, 1 octet, ’A7’O=’167’DEC = 24 hours
vp7	–		TP validity period, 7 octets
udl	?		data length 160 octets
ud	tpud		TP user data

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpStatusReport_01(tpda : BCDN; mr: MR; timezone : TZONES)
Structured Type : SMST_RPT
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
sprb1	’00000’B		5 spare bits
mms	’1’B		no more messages to send
mti	’10’B		TP status report
mr	mr		TP message reference
ra	SmDestAddr_02(tpda)		receipent address
scts	OC_GetSCTimeStamp(timezone)		service centre time stamp
dt	OC_GetSCTimeStamp(timezone)		TP discharge time
st	TpStatus_01		TP status

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SmOrigAddr_01(tpoa1:BCDN)
Structured Type : TPA
Derivation Path :
Encoding Variation :
Comments : international number coded E.164 (GSM 11.10, 34.2.1.3, specific message contents). Used in SMS−DELIVER (n−>ms)

Element Name	Element Value	Element Encoding	Comments
iel	OC_IntToOct((OC_LengthOfBCDN(tpoa1) * 2), 1)		
tonnpi	TonNpi_03		ton: international, npi: ISDN/tel. E.164
digits	tpoa1		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SmOrigAddr_02(tpoa: BCDN)
Structured Type : TPA
Derivation Path :
Encoding Variation :
Comments : international number coded E.164 (GSM 11.10, 34.2.1.3, specific message contents). Used in SMS−DELIVER (n−>ms)

Element Name	Element Value	Element Encoding	Comments
iel	OC_IntToOct((OC_LengthOfBCDN(tpoa) * 2), 1)		
tonnpi	TonNpi_03		ton: international, npi: ISDN/tel. E.164
digits	tpoa		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SmDestAddr_01
Structured Type : TPA
Derivation Path :
Encoding Variation :
Comments : international number coded E.164 (GSM 11.10, 34.2.1.3, specific message contents). Used in SMS−SUBMIT (ms−>n)

Element Name	Element Value	Element Encoding	Comments
iel	?		
tonnpi	TonNpi_04		ton: international, npi: ISDN/tel. E.164
digits	?		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SmDestAddr_02(tpda: BCDN)
Structured Type : TPA
Derivation Path :
Encoding Variation :
Comments : international number coded E.164 (GSM 11.10, 34.2.1.3, specific message contents). Used in SMS−SUBMIT (ms−>n)

Element Name	Element Value	Element Encoding	Comments
iel	OC_IntToOct((OC_LengthOfBCDN(tpda) * 2), 1)		
tonnpi	TonNpi_03		ton: international, npi: ISDN/tel. E.164
digits	tpda		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpOrigAddr_01(rpoa_mt: BCDN)
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7. Used in SMS−DELIVER (n−>ms)

Element Name	Element Value	Element Encoding	Comments
iei	−		calling party number
iel	OC_IntToOct((OC_LengthOfBCDN(rpoa_mt) + 1), 1)		
tonnpi	TonNpi_03		ton: international, npi: ISDN/tel. E.164
digits	rpoa_mt		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpOrigAddr_02
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7. Used in SMS−SUBMIT (ms−>n)

Element Name	Element Value	Element Encoding	Comments
iei	−		calling party number
iel	’00’O		ms −> n = 0
tonnpi	−		
digits	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpOrigAddr_03(rpoa: BCDN)
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7. Used in SMS−DELIVER (n−>ms)

Element Name	Element Value	Element Encoding	Comments
iei	−		calling party number
iel	OC_IntToOct((OC_LengthOfBCDN(rpoa) + 1), 1)		
tonnpi	TonNpi_03		ton: international, npi: ISDN/tel. E.164
digits	rpoa		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpDestAddr_01
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7. Used in SMS−DELIVER (n−>ms)

Element Name	Element Value	Element Encoding	Comments
iei	−		called party number
iel	’00’O		n −> ms = 0
tonnpi	−		
digits	−		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpDestAddr_02
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7. Used in SMS−SUBMIT (ms−>n)

Element Name	Element Value	Element Encoding	Comments
iei	−		called party number
iel	(’02’O, ’03’O, ’04’O, ’05’O, ’06’O, ’07’O, ’08’O, ’09’O, ’0A’O, ’0B’O)		ms −> n = 2..11
tonnpi	*		
digits	*		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : RpDestAddr_03(rpda: BCDN)
Structured Type : CDPN
Derivation Path :
Encoding Variation :
Comments : Called party BCD number (CC information element)
GSM 04.08, 10.5.4.7

Element Name	Element Value	Element Encoding	Comments
iei	–		called party number
iel	?		
tonnpi	?		
digits	rpda		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : SMSCBdata(b1, b2, b3, b4: OCTETSTRING)
Structured Type : SMSCBpack
Derivation Path :
Encoding Variation :
Comments : SMS cell broadcasting packing data

Element Name	Element Value	Element Encoding	Comments
block1	b1		16 bytes
block2	b2		22 bytes
block3	b3		22 bytes
block4	b4		22 bytes

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tppid_01
Structured Type : TPPID
Derivation Path :
Encoding Variation :
Comments : TP protocol identifier,GSM 03.40, 9.2.3.9
default value 0

Element Name	Element Value	Element Encoding	Comments
type	’00’B		default value is 0 acc. GSM 11.10, 34.2.1.3, specific message contents
value	’000000’B		default value is 0 acc. GSM 11.10, 34.2.1.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tppid_02(smtype: INTEGER)
Structured Type : TPPID
Derivation Path :
Encoding Variation :
Comments : TP protocol identifier,GSM 03.40, 9.2.3.9
default value 0

Element Name	Element Value	Element Encoding	Comments
type	'01'B		default value is 0 acc. GSM 11.10, 34.2.7.4, specific message contents
value	INT_TO_BIT(smtype, 6)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tpdcs_01
Structured Type : TPDCS
Derivation Path :
Encoding Variation :
Comments : SMS data coding scheme, GSM 03.38, 4, 5
default value is 0

Element Name	Element Value	Element Encoding	Comments
cg	'0000'B		default value is 0 acc. GSM 11.10, 34.2.1.3, specific message contents
code	'0000'B		default value is 0 acc. GSM 11.10, 34.2.1.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tpdcs_02
Structured Type : TPDCS
Derivation Path :
Encoding Variation :
Comments : SMS data coding scheme, GSM 03.38, 4, 5
class 2

Element Name	Element Value	Element Encoding	Comments
cg	'1111'B		value acc. GSM 11.10, 34.2.3.3, specific message contents
code	'0010'B		value acc. GSM 11.10, 34.2.3.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tpdcs_03
Structured Type : TPDCS
Derivation Path :
Encoding Variation :
Comments : SMS data coding scheme, GSM 03.38, 4, 5 class 1

Element Name	Element Value	Element Encoding	Comments
cg	’1111’B		value acc. GSM 11.10, 34.2.3.3, specific message contents
code	’0001’B		value acc. GSM 11.10, 34.2.3.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tpdcs_04
Structured Type : TPDCS
Derivation Path :
Encoding Variation :
Comments : SMS data coding scheme, GSM 03.38, 4, 5 class 0

Element Name	Element Value	Element Encoding	Comments
cg	’1111’B		value acc. GSM 11.10, 34.2.5.1.3, specific message contents
code	’0000’B		value acc. GSM 11.10, 34.2.5.1.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : Tpdcs_05
Structured Type : TPDCS
Derivation Path :
Encoding Variation :
Comments : SMS data coding scheme, GSM 03.38, 4, 5 default alphabet, english

Element Name	Element Value	Element Encoding	Comments
cg	’0000’B		default value is 0 acc. GSM 11.10, 34.2.1.3, specific message contents
code	’0001’B		default alphabet, english, acc. GSM 11.10, 34.2.1.3, specific message contents

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpStatus_01
Structured Type : TPST
Derivation Path :
Encoding Variation :
Comments : Short message received by the SME

Element Name	Element Value	Element Encoding	Comments
sprb1	’0’B		spare bit
value	’0000000’B		status value/usage

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpCommand_01(tpmr: MR)
Structured Type : SMCMD
Derivation Path :
Encoding Variation :
Comments : Enquiry related to previously submitted short message

Element Name	Element Value	Element Encoding	Comments
sprb1	’00’B		2 spare bits
srr	’0’B		TP Status Report Request
sprb2	’000’B		3 spare bits
mti	’10’B		TP Command
mr	OC_IntToOct(OC_OctToInt(tpmr) + 1, 1)		TP message reference
pid	Tppid_01		protocol identifier
ct	’00’O		Enquiry related to previously submitted short message
mn	?		TP message number
da	?		TP destination address
cdl	?		TP command data length
cd	?		TP command data, max 157 octets

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : TpCommand_02(tpmr: MR)
Structured Type : SMCMD
Derivation Path :
Encoding Variation :
Comments : Delete previously submitted short message

Element Name	Element Value	Element Encoding	Comments
sprb1	’00’B		2 spare bits
srr	’0’B		TP Status Report Request
sprb2	’000’B		3 spare bits
mti	’10’B		TP Command
mr	OC_IntToOct(OC_OctToInt (tpmr) + 1, 1)		TP message reference
pid	Tppid_01		protocol identifier
ct	’02’O		Delete previously submitted short message
mn	?		TP message number
da	?		TP destination address
cdl	?		TP command data length
cd	?		TP command data, max 157 octets

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : UuInfo_omit
Structured Type : UU
Derivation Path :
Encoding Variation :
Comments : Omitted UUInfo.

Element Name	Element Value	Element Encoding	Comments
iei	−		’01111110’B
iel	−		
uupd	−		user−user protocol discriminator
uui	−		user user information

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : UuInfo
Structured Type : UU
Derivation Path :
Encoding Variation :
Comments : Delete previously submitted short message

Element Name	Element Value	Element Encoding	Comments
iei	’01111110’B		’01111110’B
iel	OC_IntToOct(1+ OC_LengthOfOct(TSPX_UuInfo), 1)		
uupd	TSPX_Uupd		user−user protocol discriminator
uui	TSPX_UuInfo		user user information

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V21OrAbt1
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	(’00001’B, ’01000’B)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V22OrAbt1
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	(’00010’B, ’01000’B)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V23OrAbt1
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	('00100'B, '01000'B)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V22bisOrV26ter
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	('00011'B, '00101'B)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V22bisOrV26terOrAbt1
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	('00011'B, '00101'B, '01000'B)		

Detailed Comments :

Structured Type Constraint Declaration

Constraint Name : V32OrAbt1
Structured Type : MODEMTYPE
Derivation Path :
Encoding Variation :
Comments :

Element Name	Element Value	Element Encoding	Comments
v_abt1	('00110'B, '01000'B)		

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CF all synchronous services

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                          invokeID          ?,
                          localValue         12,
                          ss_ForBS
                                  {
                                    ss_Code          '20'H,
                                    basicService     bearerService     '68'H
                                  }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFU all basic services

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                          invokeID          ?,
                          localValue         12,
                          ss_ForBS
                                  {
                                    ss_Code          '21'H
                                  }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BAOC all synchronous services

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                         invokeID          ?,
                         localValue         12,
                         ss_ForBS
                                 {
                                  ss_Code          '92'H,
                                  basicService     bearerService     '68'H
                                 }
                         }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_04
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BIC−Roam

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                         invokeID          ?,
                         localValue         12,
                         ss_ForBS
                                 {
                                  ss_Code          '9B'H  −− BIC−Roam
                                 }
                         }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_05
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BOIC

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                          invokeID          ?,
                          localValue         12,
                          ss_ForBS
                                {
                                  ss_Code          '93'H
                                }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ActivateSS_06
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BAIC

Constraint Value

```
activateSSComponents    activateSS_InvokeComp
                        {
                          invokeID          ?,
                          localValue         12,
                          ss_ForBS
                                {
                                  ss_Code          '9A'H
                                }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : BldMptySS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : build multiparty request

Constraint Value

```
buildMPTYComponents buildMPTY_InvokeComp
                    {
                      invokeID          ?,
                      localValue         124
                    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : Comps_01(comp : Component)
ASN1 Type : Components
Derivation Path :
Encoding Variation :
Comments : A received FIE may contain several components, but at least contains "comp".

Constraint Value

SUPERSET({ comp})

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFC for speech

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                  {
                                   ss_Code      '28'H,
                                   basicService   teleservice   '10'H
                                   }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRc for all facsimile

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                  {
                                   ss_Code      '2B'H,
                                   basicService   teleservice   '60'H
                                   }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : deactivation for barring

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                   {
                                    ss_Code      '90'H,
                                    basicService   teleservice   '10'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_04
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : deactivation for barring of outging calls

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                   {
                                    ss_Code      '91'H,
                                    basicService   teleservice   '60'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_05
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : deactivation for barring of incoming calls

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                   {
                                    ss_Code    '99'H
                                    }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : DeactivateSS_06
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : deactivation for BOICExHC

Constraint Value

```
deactivateSSComponents    deactivateSS_InvokeComp
                          {
                           invokeID          ?,
                           localValue         13,
                           ss_ForBS
                                   {
                                    ss_Code    '94'H
                                    }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : EraseSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFC for all facsimile

Constraint Value

```
eraseSSComponents    eraseSS_InvokeComp
                     {
                      invokeID          ?,
                      localValue         11,
                      ss_ForBS
                              {
                               ss_Code      '28'H,
                               basicService   teleservice   '60'H
                               }
                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : EraseSS_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRc for all basic services

Constraint Value

```
eraseSSComponents    eraseSS_InvokeComp
                     {
                      invokeID          ?,
                      localValue         11,
                      ss_ForBS
                              {
                               ss_Code      '2B'H
                               }
                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : EraseSS_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFU for speech

Constraint Value

```
eraseSSComponents    eraseSS_InvokeComp
                     {
                      invokeID          ?,
                      localValue         11,
                      ss_ForBS
                              {
                               ss_Code      '21'H,
                               basicService   teleservice   '10'H
                               }
                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : EraseSS_04
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRy for all facsimile

Constraint Value

```
eraseSSComponents    eraseSS_InvokeComp
                     {
                      invokeID          ?,
                      localValue         11,
                      ss_ForBS
                              {
                               ss_Code      '2A'H,
                               basicService   teleservice   '60'H
                               }
                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : FwdChAdvRslt_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
forwardChargeAdviceComponents    forwardChargeAdvice_ReturnResultComp
        {
                                                    invokeID                0,
                                                    result                  *

          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : GetPasswdRslt_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
getPasswordComponents    getPassword_ReturnResultComp
                                                    {
                                                     invokeID                0,
                                                     result
                                                          {
                                                           localValue        18,
                                                           currentPassword   "1234"
                                                          }
                                                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : GetPasswdRslt_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
getPasswordComponents    getPassword_ReturnResultComp
                         {
                          invokeID          0,
                          result
                                {
                                 localValue        18,
                                 currentPassword   "9876"
                                }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : GetPasswdRslt_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
getPasswordComponents    getPassword_ReturnResultComp
                         {
                          invokeID          0,
                          result
                                {
                                 localValue        18,
                                 currentPassword   "9877"
                                }
                          }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFB for all basic services

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp      {
   invokeID                ?,
   localValue              14,
   ss_ForBS    {
                                                                ss_Code      '29'H
            }
                                        }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRy for Speech

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                                          {
                                           invokeID                ?,
                                           localValue              14,
                                           ss_ForBS
                                                    {
                                                     ss_Code      '2A'H, --CNFRy
                                                     basicService   teleservice   '10'H
                                                     }
                                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRc for all basic services

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                           {
                            invokeID          ?,
                            localValue         14,
                            ss_ForBS
                                   {
                                    ss_Code     '2B'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_04
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFB for all facsimile

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                           {
                            invokeID          ?,
                            localValue         14,
                            ss_ForBS
                                   {
                                    ss_Code     '29'H,
                                    basicService   teleservice   '60'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_05
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BICRoam

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                                    {
                                     invokeID          ?,
                                     localValue         14,
                                     ss_ForBS
                                            {
                                             ss_Code    '9B'H
                                             }
                                    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_06
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BOIC

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                                    {
                                     invokeID          ?,
                                     localValue         14,
                                     ss_ForBS
                                            {
                                             ss_Code    '93'H
                                             }
                                    }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_07
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BAIC

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                           {
                            invokeID          ?,
                            localValue         14,
                            ss_ForBS
                                   {
                                    ss_Code    '9A'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : InterrogateSS_08
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : BOICExHC

Constraint Value

```
interrogateSSComponents    interrogateSS_InvokeComp
                           {
                            invokeID          ?,
                            localValue         14,
                            ss_ForBS
                                   {
                                    ss_Code    '94'H
                                    }
                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : NotificationSS_07(Invkid: OCTETSTRING)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
unstructuredSSNotifyComponents    unstructuredSSNotify_ReturnResultComp
                                  {
                                    invokeID          OC_OctToInvokeIDType(Invkid),
                                    result
                                        {
                                          localValue          61
                                        }
                                  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : NotificationSS_09(Invkid: OCTETSTRING)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
unstructuredSSNotifyComponents    unstructuredSSNotify_ReturnErrorComp

                                  errorCodes
                                  {
                                    invokeID          OC_OctToInvokeIDType(Invkid),
                                    errorCode         ussd_Busy
                                  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : RegisterSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFNRy Speech

Constraint Value

```
registerSSComponents    registerSS_InvokeComp   {
    invokeID                ?,
    localValue              10,                                     registerSS_Arg  {
                                                                     ss_Code                     '2A'H,
                                                                     basicService    teleservice     '10'H,
                                                                     forwardedToNumber       '8100342143'H,
                            -- Unknown Number/ISDN telephony + '00431234'
                                                                     noReplyConditionTime    5
                                                                        }
                                }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : RegisterSS_02
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFU

Constraint Value

```
registerSSComponents    registerSS_InvokeComp    {
  invokeID                ?,
  localValue              10,
  registerSS_Arg  {
                                                        ss_Code                     '21'H,
                                                        basicService    teleservice     '60'H,
                                                        forwardedToNumber       '8100342143'H
                          -- Unknown Number/ISDN telephony + '00431234'

            }
                                  }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : RegisterSS_03
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CFB

Constraint Value

```
registerSSComponents    registerSS_InvokeComp    {
    invokeID                ?,
    localValue              10,
    registerSS_Arg    {
                                                    ss_Code                 '29'H,
                                                    basicService    bearerService     '60'H,
                                                    forwardedToNumber         '8100342143'H
                    -- Unknown Number/ISDN telephony + '00431234'
                }
                        }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : RegisterSS_04
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : CF for all facsimile

Constraint Value

```
registerSSComponents    registerSS_InvokeComp    {
    invokeID                ?,
    localValue              10,
    registerSS_Arg    {
                                                    ss_Code                 '20'H,
                                                    basicService    teleservice     '60'H,
                                                    forwardedToNumber         '8100342143'H
                    -- Unknown Number/ISDN telephony + '00431234'
                }
                        }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : RegPasswdSS_01
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : All call restriction services.

Constraint Value

```
registerPasswordComponents    registerPassword_InvokeComp
                              {
                               invokeID          ?,
                               localValue         17,
                               ss_Code           '90'H
                               }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ProcessUSSData_01(ussdString: IA5String)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
processUnstructuredSSDataComponents    processUnstructuredSSData_InvokeComp
                                       {
                                        invokeID          ?,
                                        localValue         19,
                                        ss_UserData       ussdString
                                       }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : ProcessUSSDReq_01(ussdString: IA5String)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments :

Constraint Value

```
processUnstructuredSSRequestComponents    processUnstructuredSSRequest_InvokeComp
                                          {
                                           invokeID          ?,
                                           localValue         59,
                                           ussd_Arg
                                                   {
                                                    ussd_DataCodingScheme     'F0'O,
                                                    ussd_String          OC_CodingOfUssdString(ussdString)
                                                   }
                                           }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : USSDReq_04(Invkid : OCTETSTRING; ussdString: IA5String)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : ReturnResult for Unstructured SS request

Constraint Value

```
unstructuredSSRequestComponents    unstructuredSSRequest_ReturnResultComp
                                   {
                                     invokeID            OC_OctToInvokeIDType(Invkid),
                                     result
                                       {
                                         localValue          60,
                                         ussd_Res
                                           {
                                             ussd_DataCodingScheme     'F0'O,
                                             ussd_String OC_CodingOfUssdString(ussdString)
                                             }
                                       }
                                     }
```

Detailed Comments :

ASN.1 Type Constraint Declaration

Constraint Name : USSDReq_05(Invkid : OCTETSTRING)
ASN1 Type : Component
Derivation Path :
Encoding Variation :
Comments : Return Error for UnstructuredSS−Request with the error code USSD Busy

Constraint Value

```
unstructuredSSRequestComponents    unstructuredSSRequest_ReturnErrorComp
                                   errorCodes
                                   {
                                     invokeID            OC_OctToInvokeIDType(Invkid),
                                     errorCode           ussd_Busy
                                   }
```

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Abort(ch: LOGICCH; pdu : ABRT_PDU)
ASP Type : DL_DatRqAbrt
Derivation Path :
Comments : To send an Abort message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AlertRcv(pdu: ALERT_PDU)
ASP Type : DL_DatInAlert
Derivation Path :
Comments : To receive an ALERTING message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AlertSnd(ch : LOGICCH; pdu: ALERT_PDU)
ASP Type : DL_DatRqAlert
Derivation Path :
Comments : To send an ALERTING message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AssCmd(ch : LOGICCH; pdu: ASS_CMD_PDU)
ASP Type : DL_DatRqAssCmd
Derivation Path :
Comments : To send an ASSIGNMENT COMMAND message which is assigned in send statement.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AssCmp(ch : LOGICCH; pdu : ASS_COM_PDU)
ASP Type : DL_DatInAssCom
Derivation Path :
Comments : To match any received ASSIGNMENT COMPLETE message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AssFl_02(ch : LOGICCH)
ASP Type : DL_DatInAssfl
Derivation Path :
Comments : protocol error undefined

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	AssgnFl_02	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AssFl_any_cau(ch: LOGICCH)
ASP Type : DL_DatInAssfl
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	AssgnFl_01	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AuthReq(ch: LOGICCH; pdu: AUTH_RQ_PDU)
ASP Type : DL_DatRqAuthRq
Derivation Path :
Comments : To send an AUTHENTICATION REQUEST message with default values.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AuthReq_inv_01(ch: LOGICCH; rand : RAND)
ASP Type : DL_DatRqAuthRq
Derivation Path :
Comments : To send an AUTHENTICATION REQUEST message containing arbitrary spare bits

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	AuthRequest_inv_01(rand)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AuthRejSnd(ch: LOGICCH; pdu : AUTH_REJ_PDU)
ASP Type : DL_DatRqAuthRej
Derivation Path :
Comments : To send an AUTHENTICATION REJECT message with default values.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : AuthRes(pdu: AUTH_RES_PDU)
ASP Type : DL_DatInAuthRes
Derivation Path :
Comments : To match any received AUTHENTICATION RESPONSE message which contains any SRES.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CallCfm(pdu: CALL_CO_PDU)
ASP Type : DL_DatInCallCo
Derivation Path :
Comments : To receive a CC CALL CONFIRMED message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CallProc(ch: LOGICCH; pdu: CALL_PROC_PDU)
ASP Type : DL_DatRqCallProc
Derivation Path :
Comments : To send a CALL PROCEEDING message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CCStRcv(ch: LOGICCH; pdu : CCST_PDU)
ASP Type : DL_DatInCcst
Derivation Path :
Comments : To match any received STATUS message with TI = Ti.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CCStSnd(ch: LOGICCH; pdu : CCST_PDU)
ASP Type : DL_DatRqCcst
Derivation Path :
Comments : To send a CC STATUS message without mandatory cause IE and call state IE.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CCStESnd(ch: LOGICCH; pdu: CCST_ENQ_PDU)
ASP Type : DL_DatRqCcstEnq
Derivation Path :
Comments : To send a STATUS ENQUIRY message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ChmmoAckRcv(ch : LOGICCH; msg : CHMMO_ACK_PDU)
ASP Type : DL_DatInChmmoAck
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ChmmoReqSnd(ch : LOGICCH; msg : CHMMO_PDU)
ASP Type : DL_DatRqChmmo
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ChRel(ch: LOGICCH; pdu: CH_REL_PDU)
ASP Type : DL_DatRqChRel
Derivation Path :
Comments : To send a CHANNEL RELEASE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ChRel_inv(ch : LOGICCH)
ASP Type : DL_DatRqChRelErr
Derivation Path :
Comments : To send a CHANNEL RELEASE message containing additional IE unknown in the RR protocol

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	ChRelease_inv_03	

Detailed Comments : used in TC_26_5_6_3

ASP Constraint Declaration

Constraint Name : ChReq(pdu: CH_RQ_PDU)
ASP Type : DL_RacInChRq
Derivation Path :
Comments : To receive a primitive containing a CHANNEL REQUEST message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ChReq_01(ch : LOGICCH; pdu : CH_RQ_PDU)
ASP Type : DL_RacInChRq
Derivation Path :
Comments : To receive a CHANNEL REQUEST message in cell B

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
fn	?	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ClassChgURcv(pdu : CLM_CHN_PDU)
ASP Type : DL_UdatInClmChn
Derivation Path :
Comments : to match a received CLASSMARK CHANGE message containing classmark2 indicating original rf power class

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ClassChgDRcv(pdu : CLM_CHN_PDU)
ASP Type : DL_DatInClmChn
Derivation Path :
Comments : to match a received CLASSMARK CHANGE message containing classmark2 indicating original rf power class and possible classmark3.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ClassMkEnq_01(ch: LOGICCH)
ASP Type : DL_DatRqClmEnq
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	ClassMarkEnq_01	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CmreReq_02(mi : MI; lai : LAI; cksn : B_3)
ASP Type : DL_EstInCmreRq
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	CoRes
msg	CMReEstReq_02(mi, lai, cksn)	CM REESTABLISHMENT REQUEST
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CMSerAcp(ch : LOGICCH; pdu: CMS_ACP_PDU)
ASP Type : DL_DatRqCmsAcp
Derivation Path :
Comments : To send a CM service accept message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CMSerRej(ch : LOGICCH; pdu: CMS_REJ_PDU)
ASP Type : DL_DatRqCmsRej
Derivation Path :
Comments : reject cause = "service or option not available, unspecified"

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CMSerReq(pdu: CMS_RQ_PDU)
ASP Type : DL_EstInCmsRq
Derivation Path :
Comments : To receive a CM SERVICE REQUEST message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CMSerDatReq(pdu : CMS_RQ_PDU)
ASP Type : DL_DatInCmsRq
Derivation Path :
Comments : To match any received CM SERVICE REQUEST message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ConnAckRcv(pdu: CONN_ACK_PDU)
ASP Type : DL_DatInConnAck
Derivation Path :
Comments : To receive a CONNECT ACKNOWLEDGE message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ConnAckSnd(ch : LOGICCH; pdu: CONN_ACK_PDU)
ASP Type : DL_DatRqConnAck
Derivation Path :
Comments : To send a CONNECT ACKNOWLEDGE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Conn_invSnd(ch : LOGICCH; pdu : CONN_PDU_ERR)
ASP Type : DL_DatRqConnErr
Derivation Path :
Comments : To send a CC CONNECT message containing a mandatory IE coded as comprehension required.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ConnRcv(pdu: CONN_PDU)
ASP Type : DL_DatInConn
Derivation Path :
Comments : To receive a CC CONNECT message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ConnSnd(ch: LOGICCH; pdu: CONN_PDU)
ASP Type : DL_DatRqConn
Derivation Path :
Comments : To send a CC CONNECT message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CphCmd(ch: LOGICCH; pdu: CPHM_CMD_PDU)
ASP Type : DL_DatRqCphmCmd
Derivation Path :
Comments : To send a CIPHERING MODE COMMAND message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CphCmd_inv(ch : LOGICCH; pdu : CPHM_CMD_PDU_ERR)
ASP Type : DL_DatRqCphmCmdErr
Derivation Path :
Comments : To send a CIPHERING MODE COMMAND message containing additional unknown IE

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	CphModeCmd_inv_03	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : CphCom(pdu: CPHM_COM_PDU)
ASP Type : DL_DatInCphmCom
Derivation Path :
Comments : To receive a CIPHERING MODE COMPLETE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Disc_inv(ch: LOGICCH; pdu : DISC_PDU)
ASP Type : DL_DatRqDisc
Derivation Path :
Comments : To send a DISCONNECT message containing the transaction ID not refer to the active call.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Disc_inv_err(ch : LOGICCH; pdu : DISC_PDU_ERR)
ASP Type : DL_DatRqDiscErr
Derivation Path :
Comments : To send a DISCONNECT message containing unknown IEI

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	TI = ’0000’B

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DiscRcv(ch : LOGICCH; pdu: DISC_PDU)
ASP Type : DL_DatInDisc
Derivation Path :
Comments : To match a received DISCONNECT message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	any cause, no option IEs
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DiscSnd(ch : LOGICCH; pdu: DISC_PDU)
ASP Type : DL_DatRqDisc
Derivation Path :
Comments : To send a DISCONNECT message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLEstCo(ch : LOGICCH)
ASP Type : DL_EstCo
Derivation Path :
Comments : The ASP is used by the L2 to inform the L3 about the establishment of multiple frame link (L2 −> L3).

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	3
logic_ch	ch	
establish_mode	C_Norm	Norm

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLEstRq(ch : LOGICCH)
ASP Type : DL_EstRq
Derivation Path :
Comments : Request of a layer 2 connection establishment

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	3
logic_ch	ch	
establish_mode	C_Norm	Norm

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLEstInd(ch : LOGICCH)
ASP Type : DL_EstIn
Derivation Path :
Comments : Indication of a layer 2 connection establishment

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
establish_mode	?	Norm
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLEstInd_2(ch : LOGICCH)
ASP Type : DL_EstIn
Derivation Path :
Comments : Indication of a layer 2 connection establishment for SAPI 3

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	
logic_ch	ch	
establish_mode	?	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLRelInd_01
ASP Type : DL_RelIn
Derivation Path :
Comments : Layer 2 indication of the layer 2 connection has been released.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
release_mode	?	
outstanding_indicator	?	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLRelInd_02
ASP Type : DL_RelIn
Derivation Path :
Comments : Layer 2 indication of the layer 2 connection has been released.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
release_mode	C_LocEndRel	
outstanding_indicator	?	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ESetupRcv(pdu: ESETUP_PDU)
ASP Type : DL_DatInESetup
Derivation Path :
Comments : To receive an emergency call SETUP message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : FacilityRcv(fac : FAC_PDU)
ASP Type : DL_DatInFac
Derivation Path :
Comments : To receive a FACILITY message containing build multiparty request

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	DCCH
msg	fac	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : FacilitySnd(ch : LOGICCH; fac : FAC_PDU)
ASP Type : DL_DatRqFac
Derivation Path :
Comments : To send the FACILITY message passed by ’fac’

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	fac	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : FrqRedfSnd(ch : LOGICCH; pdu : FRQRE_PDU)
ASP Type : DL_DatRqFrqre
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HndOvSnd(ch : LOGICCH; msg : HO_CMD_PDU)
ASP Type : DL_DatRqHoCmd
Derivation Path :
Comments : To send a HANDOVER COMMAND indicating a finely synchronised intra cell handover.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HndOvAcc_01
ASP Type : DL_RacInHoacc
Derivation Path :
Comments : To received any HANDOVER ACCESS message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0,
logic_ch	?	
msg	HandOverAcc_01	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HndOvAccRcv(ch: LOGICCH; msg : HOACC_PDU)
ASP Type : DL_RacInHoacc
Derivation Path :
Comments : To received any HANDOVER ACCESS message on channel ‘ch‘.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0,
logic_ch	ch	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HndOvFlRcv(ch : LOGICCH; msg :HOFL_PDU)
ASP Type : DL_DatInHofl
Derivation Path :
Comments : To match a received HANDOVER FAILURE message containing any RR cause.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HndOvCmpRcv(ch : LOGICCH; msg : HO_COM_PDU)
ASP Type : DL_DatInHoCom
Derivation Path :
Comments : To receive any HANDOVER COMPLETE message on channel ch.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HoldRcv(pdu : HOLD_PDU)
ASP Type : DL_DatInHold
Derivation Path :
Comments : To receive any HOLD message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : HoldAckSnd(ch : LOGICCH; pdu : HOLD_ACK_PDU)
ASP Type : DL_DatRqHoldAck
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : IDReq(ch : LOGICCH; pdu: ID_RQ_PDU)
ASP Type : DL_DatRqIdRq
Derivation Path :
Comments : To send IDENTITY REQUEST message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : IDRes(pdu: ID_RES_PDU)
ASP Type : DL_DatInIdRes
Derivation Path :
Comments : To receive a IDENTITY RESPONSE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ImmAss(ch: LOGICCH; pdu: IMMASS_PDU)
ASP Type : DL_UdatRqImmass
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ImmAssSp(ch:LOGICCH; pgg:PGG; msg:IMMASS_PDU)
ASP Type : DL_UdatRqImmass_sp
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT message on the MS paging channel.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ImmAssX(ch : LOGICCH; pdu : IMMASSX_PDU)
ASP Type : DL_UdatRqImmassx
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT EXTENDED message which assigns the SDCCH/4 channel for the MS

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments : The request reference (Rr, Fn) is used for the MS1, whilst (Rr_9, Fn_9) for MS2.

ASP Constraint Declaration

Constraint Name : ImmAssXSp(ch:LOGICCH; pgg:PGG; msg:IMMASSX_PDU)
ASP Type : DL_UdatRqImmassx_sp
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT EXTENDED message on the MS paging channel.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ImmAssRej(ch : LOGICCH; pdu : IMMASS_REJ_PDU)
ASP Type : DL_UdatRqImmassRej
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 0 seconds.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ImmAssRejSp(ch:LOGICCH; pgg:PGG; msg:IMMASS_REJ_PDU)
ASP Type : DL_UdatRqImmassRej_sp
Derivation Path :
Comments : To send an IMMEDIATE ASSIGNMENT REJECT message on the MS paging channel.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	msg	

Detailed Comments : Only used in TC_26_6_2_4

ASP Constraint Declaration

Constraint Name : ImsiDet(pdu : IMSID_IN_PDU)
ASP Type : DL_EstInImsidIn
Derivation Path :
Comments : To match a received IMSI DETACH INDICATION message matching any MS classmark1 value and any mobile identity value

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	check not required
establish_mode	?	check not required
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : LocAcp(ch : LOGICCH; pdu : LUP_ACP_PDU)
ASP Type : DL_DatRqLupAcp
Derivation Path :
Comments : To send a LOCATION UPDATING ACCEPT message with a new mobile identity TMSI and location area.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : LocAcp_inv(ch: LOGICCH; mi1, mi2 : MI; mcc, mnc, lac : OCTETSTRING)
ASP Type : DL_DatRqLupAcpErr
Derivation Path :
Comments : To send a LOCATION UPDATING ACCEPT message with duplicated mobile identities.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	LocUpdtAcp_inv_01(mi1, mi2, mcc, mnc, lac)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : LocUp(ch: LOGICCH; pdu : LUP_RQ_PDU)
ASP Type : DL_EstInLupRq
Derivation Path :
Comments : To match a received LOCATION UPDATING REQUEST message containing location updating type = IMSI attach.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
establish_mode	?	no check required
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : LocRej(ch: LOGICCH; pdu : LUP_REJ_PDU)
ASP Type : DL_DatRqLupRej
Derivation Path :
Comments : To send a LOCATION UPDATING REJECT message containing the reject cause IMSI unknown in HLR.
Used var's:
ch

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : MDLRelReq(ch : LOGICCH)
ASP Type : MDL_RelRq
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
release_mode	C_LocEndRel	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ModifySnd(ch : LOGICCH; msg : MODIFY_PDU)
ASP Type : DL_DatRqModify
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ModifyRcv(msg : MODIFY_PDU)
ASP Type : DL_DatInModify
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ModifyCmpSnd(ch : LOGICCH; msg : MODIFY_COM_PDU)
ASP Type : DL_DatRqModifyCom
Derivation Path :
Comments : n –> ms

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ModifyRejRqSnd(ch : LOGICCH; msg : MODIFY_REJ_PDU)
ASP Type : DL_DatRqModifyRej
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ModifyRejRcv(ch : LOGICCH; msg : MODIFY_REJ_PDU)
ASP Type : DL_DatInModifyRej
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : MMSt(pdu : MMST_PDU)
ASP Type : DL_DatInMmst
Derivation Path :
Comments : To receive a MM STATUS message containing reject cause value #97.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : MsrRept(pdu : MSR_RPT_PDU)
ASP Type : DL_UdatInMsrRpt
Derivation Path :
Comments : To receive a measurement report without measurement results.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	SACCH
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : NotifySnd(ch : LOGICCH; msg : NOTIFY_PDU)
ASP Type : DL_DatRqNotify
Derivation Path :
Comments : To send a NOTIFY message to the MS. The message contains any valid notification indicator.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PgReq1(ch : LOGICCH; pgg : PGG; pg1_req_pdu: PG1_RQ_PDU)
ASP Type : DL_UdatRqPg1Rq
Derivation Path :
Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	pg1_req_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PgReq2(ch : LOGICCH; pgg : PGG; pg2_req_pdu: PG2_RQ_PDU)
ASP Type : DL_UdatRqPg2Rq
Derivation Path :
Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	pg2_req_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PgReq3(ch : LOGICCH; pgg : PGG; pg3_req_pdu: PG3_RQ_PDU)
ASP Type : DL_UdatRqPg3Rq
Derivation Path :
Comments : To send a PAGING REQUEST TYPE 1 message to the paging group indicated by the parameter pgg which is derived from system parameters. The PAGING REQUEST TYPE1 message requests normal paging mode, any channel and for the MS identity TSPX_TMSI.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
pgg	pgg	Paging group of the mobile to be paged.
msg	pg3_req_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PagingRes(pdu: PG_RES_PDU)
ASP Type : DL_EstInPgRes
Derivation Path :
Comments : To receive a PAGING RESPONSE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
establish_mode	?	
msg	pdu	PAGING RESPONSE
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PgRes(ch : LOGICCH; pdu : PG_RES_PDU)
ASP Type : DL_EstInPgRes
Derivation Path :
Comments : To match any received PAGING RESPONSE message on the channel ‘ch‘.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
establish_mode	?	
msg	pdu	PAGING RESPONSE
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : PhyInfo_01(ch: LOGICCH; ta : TA)
ASP Type : DL_DatRqPhyinfo
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	Phyinfor_01(ta)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Progress(ch : LOGICCH; pdu: PROG_PDU)
ASP Type : DL_DatRqProg
Derivation Path :
Comments : To send a PROGRESS message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Register_01(ch:LOGICCH; reg : REGISTER_PDU)
ASP Type : DL_DatInRegister
Derivation Path :
Comments : To receive any Register message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	reg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Register_03(reg : REGISTER_PDU)
ASP Type : DL_DatInRegister
Derivation Path :
Comments : CFNRy

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	DCCH
msg	reg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : RegisterReq(ch: LOGICCH; reg : REGISTER_PDU)
ASP Type : DL_DatRqRegister
Derivation Path :
Comments : To send a REGISTER message containing Invoke for UnstructuredSS−Notify

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	reg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ReleaseRcv(pdu: REL_PDU)
ASP Type : DL_DatInRel
Derivation Path :
Comments : To receive a CC RELEASE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : ReleaseSnd(ch: LOGICCH; pdu: REL_PDU)
ASP Type : DL_DatRqRel
Derivation Path :
Comments : To send a RELEASE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : RelComRcv(pdu: REL_COM_PDU)
ASP Type : DL_DatInRelCmp
Derivation Path :
Comments : To receive a RELEASE COMPLETE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : RelComSnd(ch : LOGICCH; pdu: REL_COM_PDU)
ASP Type : DL_DatRqRelCmp
Derivation Path :
Comments : To send a RELEASE COMPLETE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : RrStatusRcv(ch : LOGICCH; pdu : RRST_PDU)
ASP Type : DL_DatInRrst
Derivation Path :
Comments : To match a received RR STATUS message containing any RR cause.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SMSCBReq(ch : LOGICCH; pdu : SMSCB_PDU)
ASP Type : DL_UdatRqSMSCBData
Derivation Path :
Comments : To send a SMSCB message, first block

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	3
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SetupRcv(pdu: SETUP_MO_PDU)
ASP Type : DL_DatInSetup
Derivation Path :
Comments : To receive a SETUP message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SetupSnd(ch: LOGICCH; setup : SETUP_MT_PDU)
ASP Type : DL_DatRqSetup
Derivation Path :
Comments : To send a SETUP message which is the input parameter of this ASP.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	setup	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : StartDTMFRcv(msg : START_DTMF_PDU)
ASP Type : DL_DatInStartDtmf
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : StartDTMFAckSnd(ch : LOGICCH; msg : START_DTMF_ACK_PDU)
ASP Type : DL_DatRqStartDtmfAck
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : StartDTMFRejSnd(ch: LOGICCH; msg : START_DTMF_REJ_PDU)
ASP Type : DL_DatRqStartDtmfRej
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : StopDTMFRcv(msg : STOP_DTMF_PDU)
ASP Type : DL_DatInStopDtmf
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : StopDTMFAckSnd(ch: LOGICCH; msg : STOP_DTMF_ACK_PDU)
ASP Type : DL_DatRqStopDtmfAck
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SyncInfo(ch : LOGICCH; bcc : BCC; ncc : NCC)
ASP Type : DL_UdatRqSchinfo
Derivation Path :
Comments : To send SYNCHRONIZATION INFORMATION message with default parameters.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	SCH
msg	SyncInfor(bcc, ncc)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo1(ch : LOGICCH; cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1)
ASP Type : DL_UdatRqSysinfo1
Derivation Path :
Comments : To send SYSTEM INFORMATION TYPE 1 in cell A for RR testing of GSM900.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf1(cchd, maxtx, txint, re)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo1_nh(ch : LOGICCH; ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)
ASP Type : DL_UdatRqSysinfo1_nh
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf3(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo2(ch: LOGICCH; bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP)
ASP Type : DL_UdatRqSysinfo2
Derivation Path :
Comments : To send the default SYSTEM INFORMATION TYPE 2 message containing default neighbour cells description in cell B for GSM900.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf2(bcchfl, maxtx, txint, re, nccp)	Default system Information message 2

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo2ter1(ch: LOGICCH; length:LENGTH; fl: NCD2)
ASP Type : DL_UdatRqSysinfo2ter
Derivation Path :
Comments : To send the default SYSTEM INFORMATION TYPE 2ter message containing pseudo length and neighbour cells description

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf2ter1(length,fl)	System Information message 2ter

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo2bis(ch: LOGICCH; bcchflegsm: NCD)
ASP Type : DL_UdatRqSysinfo2bis
Derivation Path :
Comments : SYSTEM INFORMATION 2bis in cell A under EGSM with the ARFCN list = {988, 990, 1003}.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	BCCH
msg	SysInf2bis(bcchflegsm)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo3(ch : LOGICCH; ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)
ASP Type : DL_UdatRqSysinfo3
Derivation Path :
Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf3(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	Default System Information 3 with CCCH combined with SDCCH

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo3_2ter(ch : LOGICCH; ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)

ASP Type : DL_UdatRqSysinfo3

Derivation Path :

Comments :

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf3_2ter(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	Default System Information 3 with CCCH combined with SDCCH

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo3_inv_01(mcc, mnc, lac : OCTETSTRING)

ASP Type : DL_UdatRqSysinfo3

Derivation Path :

Comments : To send a SYSTEM INFORMATION message containing new location area and rest octets which are not all ’2B’O

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	C_BCCH_A_1	
msg	SysInf3_inv_01(mcc, mnc, lac)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo4(ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)

ASP Type : DL_UdatRqSysinfo4

Derivation Path :

Comments : To send a default SYSTEM INFORMATION TYPE 4 message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf4(mcc, mnc, lac, crh, mtmc, neci, maxtx, txint, re)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo4_CBMS(ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1; cbchd : CHD)

ASP Type : DL_UdatRqSysinfo4

Derivation Path :

Comments : To send a SYSTEM INFORMATION TYPE 4 message for SMSCB with the values or GSM 11.10, 34.3

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	SysInf4_CBMS(mcc, mnc, lac, crh, mtmc, neci, maxtx,txint, re, cbchd)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo4_inv_01(mcc, mnc, lac : OCTETSTRING)

ASP Type : DL_UdatRqSysinfo4

Derivation Path :

Comments : To send a SYSTEM INFORMATION message containing rest octets which are not all ’2B’O

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	C_BCCH_A_1	
msg	SysInf4_inv_01(mcc, mnc, lac)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo5(sacch: LOGICCH; sysinfo5_pdu : SYSINFO5_PDU)

ASP Type : DL_UdatRqSysinfo5

Derivation Path :

Comments : To send a SYSTEM INFORMATION TYPE 5 message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo5bis(sacch: LOGICCH; sysinfo5bis_pdu : SYSINFO5bis_PDU)
ASP Type : DL_UdatRqSysinfo5bis
Derivation Path :
Comments : To send a SYSTEM INFORMATION TYPE 5bis message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5bis_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : SysInfo6(sacch: LOGICCH; sysinfo6_pdu : SYSINFO6_PDU)
ASP Type : DL_UdatRqSysinfo6
Derivation Path :
Comments : To send a SYSTEM INFORMATION TYPE 6 message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo6_pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : TmsiReallocSnd(par : MI; ch : LOGICCH; mcc, mnc, lac : OCTETSTRING)
ASP Type : DL_DatRqTmsireCmd
Derivation Path :
Comments : To send a TMSI REALLOCATION COMMAND message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	TmsiReallocCmd(par, mcc, mnc, lac)	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : TmsiReallocCmp(ch : LOGICCH)
ASP Type : DL_DatInTmsireCom
Derivation Path :
Comments : To receive a TMSI REALLOCATION COMPLETE message.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	TmsiReallocComp	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLUdatInd(ch:LOGICCH)
ASP Type : DL_UdatIn
Derivation Path :
Comments : Indication of filler frame

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DLUdatInd_01
ASP Type : DL_UdatIn
Derivation Path :
Comments : Detection of any filler frame

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : UndefCC(ch: LOGICCH; pdu: CONN_PDU)
ASP Type : DL_DatRqUndefCC
Derivation Path :
Comments : To send an undefined Layer 3 message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : UndefMM(ch : LOGICCH; pdu : ID_RES_PDU)
ASP Type : DL_DatRqUndefMM
Derivation Path :
Comments : To send an undefined MM message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : UndefRR(ch: LOGICCH; pdu : PART_REL_PDU)
ASP Type : DL_DatRqUndefRR
Derivation Path :
Comments : To send an undefined RR message

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : Unknown(ch: LOGICCH; pdu: CCST_ENQ_PDU)
ASP Type : DL_DatRqUnknown
Derivation Path :
Comments : To send an unknown CC message which is coded like a CC STATUS ENQUIRY.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatInCpData(ch : LOGICCH; message : CP_DATA_PDU)
ASP Type : DL_DatInCpData
Derivation Path :
Comments : The ASP is used to indicate the receipt of the SMS CP DATA message using acknowledged operation (L2 −> L3) for MT.

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	
fn	?	frame number of the last frame carrying the message

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatRqCpData(message:CP_DATA_PDU; ch: LOGICCH)
ASP Type : DL_DatRqCpData
Derivation Path :
Comments : ASP to request the transmission of the SMS CP DATA message using acknowlodged operation (L3 −> L2) for MO.

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatInCpDataAck(message:CPDATA_ACK_PDU)
ASP Type : DL_DatInCpDataAck
Derivation Path :
Comments : The ASP is used to indicate the receipt of the SMS CP DATA message using acknowledged operation (L2 −> L3) .

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	?	
msg	message	
fn	?	frame number of the last frame carrying the message

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatRqCpDataAck(message:CPDATA_ACK_PDU; ch: LOGICCH)
ASP Type : DL_DatRqCpDataAck
Derivation Path :
Comments : The ASP is used to request the transmission of the SMS CP DATA message using acknowlodged operation (L3 −> L2).

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatRqCpError(message:CPERR_PDU; ch: LOGICCH)
ASP Type : DL_DatRqCpError
Derivation Path :
Comments : ASP to request the transmission of the SMS CP ERROR message using acknowlodged operation (L3 −> L2) for MO.

Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	

Detailed Comments :

ASP Constraint Declaration

Constraint Name : DatInImsiDet(pdu : IMSID_IN_PDU)

ASP Type : DL_DatInImsidIn

Derivation Path :

Comments : To match a received DATA INDICATION IMSI DETACH INDICATION message against the parameterised PDU.

Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	check not required
msg	pdu	
fn	?	

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Alerting_01(Ti :TI)
PDU Type : ALERT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ALERTING message containing mandatory IE's only to be sent to the MS.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000001'B		message type
fie	−		facility
pi	−		progress indicator
uu	−		user−user
ssvi	−		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Alerting_04(Ti :TI; fie : FIE)
PDU Type : ALERT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ALERTING message containing facility IE to be sent to the MS.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000001'B		message type
fie	fie		facility
pi	−		progress indicator
uu	−		user−user
ssvi	−		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AlertingInd_01(ti : TI)
PDU Type : ALERT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match an received ALERTING message

Field Name	Field Value	Field Encoding	Comments
ti	ti		’1000’B
ccpd	’0011’B		CC protocol discriminator
mt	’0?000001’B		message type
fie	*		facility
pi	−		progress indicator
uu	*		user−user
ssvi	*		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AlertingInd_02(Ti : TI)
PDU Type : ALERT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match an received ALERTING message

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?000001’B		message type
fie	*		facility
pi	−		progress indicator
uu	*		user−user
ssvi	*		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_fh(slot : SN; tsc : TSC; chtype : CH_TDMA; par_pwlvl : INTEGER; maio : MAIO; hsn : HSN; frql : FRQL; Cchd : CCHD; chmod : CHMOD; ma : MA; Cphms : CPHMS)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message for hopping without starting time.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(chtype, slot, tsc, maio, hsn)		TCH/F + ACCHs hopping
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	frql		
cchd	Cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
ma_at	ma		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	Cphms		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_nfh(type : CH_TDMA; slot : SN; tsc : TSC; par_pwlvl, arfcn : INTEGER; cchd : CCHD; chmod : CHMOD; strt : STRT; cphms : CPHMS)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message. The channel mode and type are specified as parameters.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_nfh(type, slot, tsc, arfcn)		
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	–		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	strt		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		

Detailed Comments : used iin CC testing

PDU Constraint Declaration

Constraint Name : AsgnCmd_tchf_fh(slot : SN; tsc : TSC; par_pwlvl : INTEGER; maio : MAIO; hsn : HSN; frql : FRQL; cchd : CCHD; chmod : CHMOD; ma : MA; cphms : CPHMS)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_tchf_fh(slot, tsc, maio, hsn)		TCH/F + ACCHs hopping
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	frql		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
ma_at	ma		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_tchh_fh(subch : B_1; slot : SN; tsc : TSC; par_pwlvl : INTEGER; maio : MAIO; hsn : HSN; frql : FRQL; cchd : CCHD; chmod : CHMOD; ma : MA; cphms : CPHMS)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_tchh_fh(slot, tsc, subch, maio, hsn)		
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	frql		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
ma_at	ma		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_tchh_nfh(subch : B_1; slot : SN; tsc : TSC; par_pwlvl, arfcn : INTEGER; cchd : CCHD; chmod : CHMOD; strt : STRT)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_tchh_nfh(slot, tsc, subch, arfcn)		TCH/F + ACCHs hopping
pcmd	Pcmd_19(INT_TO_BIT(par_pwlvl, 5))		
frql_at	–		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	strt		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_22_Ae1(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_flist:OCTETSTRING; par_flistl: LENGTH; n : INTEGER)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n),6), INT_TO_BIT(TSPX_HSN, 6))		assign TCH/F + ACCHs
pcmd	Pcmd_19(’01001’B)		power level = 19, for GSM
frql_at	Frql_20_egsm(par_flist, par_flistl)		
cchd	–		
ch1mod	–		
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_22_Ae2(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma:BITSTRING; n : INTEGER)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n),6), INT_TO_BIT(TSPX_HSN, 6))		assign TCH/F + ACCHs or SDCCH8
pcmd	Pcmd_19(’01001’B)		power level = 19, for GSM
frql_at	–		
cchd	CellChDes_20_Be(par_cchd)		
ch1mod	–		
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_20_Be1iei(par_ma)		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_22_Ae3(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma1:BITSTRING; par_ma2:BITSTRING; n : INTEGER)

PDU Type : ASS_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n),6), INT_TO_BIT(TSPX_HSN, 6))		assign TCH/F + ACCHs or SDCCH8
pcmd	Pcmd_19(’01001’B)		power level = 19, for GSM
frql_at	–		
cchd	CellChDes_20_Be(par_cchd)		
ch1mod	–		
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_20_Be2iei(par_ma 1, par_ma2)		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_inv_01(slot : SN; tsc : TSC)
PDU Type : ASS_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMMAND message containing invalid skip identifier

Field Name	Field Value	Field Encoding	Comments
ski	’0100’B		erroneous value
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_nfh(’00001’B, slot, tsc, C_arfcnA)		assign TCH/F + ACCHs with C_arfcnA
pcmd	Pcmd_19(’01001’B)		power level = 9, for GSM
frql_at	–		
cchd	–		
ch1mod	–		
ch2d_at	–		
ch2mod	–		
ma_at	–		
strt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AsgnCmd_r14(slot : SN; tsc : TSC; strt : STRT)
PDU Type : ASS_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMMAND message defined by PIXIT

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(TSPX_Chtp1, slot, tsc, INT_TO_BIT(TSPX_Maio2, 6), INT_TO_BIT(TSPX_Hsn2, 6))		hopping
pcmd	Pcmd_19(INT_TO_BIT(TSPX_PwrlvlA, 5))		TSPX_PwrlvlA
frql_at	–		
cchd	–		
ch1mod	ChMod_r01		TSPX_ChMod1
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_r06		TSPX_Ma2
strt	strt		
frql_bt	–		
ch1d_bt	ChDescrp_fhiei(TSPX_Chtp1, slot, tsc, INT_TO_BIT(TSPX_Maio3, 6), INT_TO_BIT(TSPX_Hsn3, 6))		hopping
ch2d_bt	–		
frqchs_bt	–		
ma_bt	MoblAllc_r07		TSPX_Ma3
cphms	–		

Detailed Comments : used in TC_26_6_13_1 only.

PDU Constraint Declaration

Constraint Name : AsgnCmd_r15(slot : SN; tsc : TSC; slot2 : SN; tsc2 : TSC; strt : STRT)
PDU Type : ASS_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMMAND message defined by PIXIT

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(TSPX_Chtp2, slot, tsc, INT_TO_BIT(TSPX_Maio5, 6), INT_TO_BIT(TSPX_Hsn5, 6))		hopping
pcmd	Pcmd_19(INT_TO_BIT(TSPX_PwrlvlB, 5))		TSPX_PwrlvlB
frql_at	–		
cchd	–		
ch1mod	ChMod_r02		TSPX_ChMod2
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_r09		TSPX_Ma5
strt	strt		
frql_bt	–		
ch1d_bt	ChDescrp_fhiei(TSPX_Chtp2, slot2, tsc2, INT_TO_BIT(TSPX_Maio3, 6), INT_TO_BIT(TSPX_Hsn3, 6))		hopping
ch2d_bt	–		
frqchs_bt	–		
ma_bt	MoblAllc_r07		TSPX_Ma3
cphms	–		

Detailed Comments : used in TC_26_6_13_2 only.

PDU Constraint Declaration

Constraint Name : AsgnCmd_r16(slot : SN; tsc : TSC; strt : STRT)
PDU Type : ASS_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMMAND message defined by PIXIT

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(TSPX_Chtp4, slot, tsc, INT_TO_BIT(TSPX_Maio8, 6), INT_TO_BIT(TSPX_Hsn8, 6))		hopping channel, TSPX_Chtp4
pcmd	Pcmd_19(INT_TO_BIT(TSPX_PwrlvlC, 5))		TSPX_PwrlvlC
frql_at	–		
cchd	–		
ch1mod	ChMod_r01		TSPX_ChMod1
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_r12		TSPX_Ma8
strt	strt		
frql_bt	–		
ch1d_bt	ChDescrp_fhiei(TSPX_Chtp4, slot, tsc, INT_TO_BIT(TSPX_Maio9, 6), INT_TO_BIT(TSPX_Hsn9, 6))		hopping, TSPX_Chtp4
ch2d_bt	–		
frqchs_bt	–		
ma_bt	MoblAllc_r13		TSPX_Ma9
cphms	–		

Detailed Comments : used in TC_26_6_13_3 only.

PDU Constraint Declaration

Constraint Name : AsgnCmd_r17(slot : SN; tsc : TSC; strt : STRT)
PDU Type : ASS_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMMAND message defined by PIXIT

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101110’B		
ch1d_at	ChDescrp_fh(TSPX_Chtp6, slot, tsc, INT_TO_BIT(TSPX_Maio12, 6), INT_TO_BIT(TSPX_Hsn12, 6))		hopping channel, TSPX_Chtp6
pcmd	Pcmd_19(INT_TO_BIT(TSPX_PwrlvlD, 5))		TSPX_PwrlvlD
frql_at	–		
cchd	–		
ch1mod	ChMod_sign_iei		signalling only
ch2d_at	–		
ch2mod	–		
ma_at	MoblAllc_r16		TSPX_Ma12
strt	strt		
frql_bt	–		
ch1d_bt	ChDescrp_fhiei(TSPX_Chtp6, slot, tsc, INT_TO_BIT(TSPX_Maio13, 6), INT_TO_BIT(TSPX_Hsn13, 6))		hopping, TSPX_Chtp6
ch2d_bt	–		
frqchs_bt	–		
ma_bt	MoblAllc_r17		TSPX_Ma13
cphms	–		

Detailed Comments : used in TC_26_6_13_3 only.

PDU Constraint Declaration

Constraint Name : AsgnCmp_02
PDU Type : ASS_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ASSIGNMENT COMPLETE message containing any cause.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00101001’B		message type
rrcau	?		any cause value

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AssgnFl_01
PDU Type : ASSFL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00101111’B		message type
rrcau	?		RR cause

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AssgnFl_02
PDU Type : ASSFL_PDU
Derivation Path : AssgnFl_01.
Encoding Rule Name :
Encoding Variation :
Comments : #6F

Field Name	Field Value	Field Encoding	Comments
rrcau	’01101111’B		protocol error unspecified

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Abortmsg_01(par: REJCAU)
PDU Type : ABRT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An ABORT message with reject cause which should be given as parameter.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00101001’B		
rejcau	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AuthRequest(cksn: B_3; rand : RAND)
PDU Type : AUTH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An AUTHENTICATION REQUEST message containing default ciphering key sequence number and default challenge RAND from PIXIT.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00010010’B		
shoct	’0000’B		
cphksn	CphKeySN_07(cksn)		
rand	rand		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AuthRequest_inv_01(rand : RAND)
PDU Type : AUTH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid AUTHENTICATION REQUEST message containing arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00010010’B		
shoct	’0101’B		arbitrary spare bits
cphksn	CphKeySN_02		ciphering key sequence number 0 and arbitrary spare bit
rand	rand		default challenge RAND from PIXIT

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AuthReject_01
PDU Type : AUTH_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An AUTHENTICATION REJECT message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00010001’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AuthResponse
PDU Type : AUTH_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An AUTHENTICATION RESPONSE message matching any SRES.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?010100’B		
sres	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_01(ti : TI)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message with TI parameterized

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	*		BC repeat indicator
bcap1	*		bearer capab.
bcap2	*		bearer capab.
cau	–		
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_02(Ti : TI)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message with cause #17.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	*		BC repeat indicator
bcap1	*		bearer capab.
bcap2	*		bearer capab.
cau	Cause_17		cause
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_03(ti : TI)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message with bcap1 presented but not checked

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	*		BC repeat indicator
bcap1	?		bearer capab.1 shall be present
bcap2	*		bearer capab.
cau	–		
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_04(ti : TI; Bcap1 : BCAP)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message with TI and bcap1 parameterized

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	–		BC repeat indicator
bcap1	Bcap1		bearer capab.
bcap2	–		bearer capab.
cau	–		
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_05(ti : TI; ri : RPI; Bcap1, Bcap2 : BCAP)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message with TI parameterized

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	ri		BC repeat indicator
bcap1	Bcap1		bearer capab.
bcap2	Bcap2		bearer capab.
cau	–		
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_20(ti : TI)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message without bearer capability information elements

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	–		BC repeat indicator
bcap1	–		bearer capab.
bcap2	–		bearer capab.
cau	–		cause
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallConfirm_Efr_20(ti : TI)
PDU Type : CALL_CO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CALL CONFIRMED message for EFR Mobiles

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?001000’B		message type
bcri	–		BC repeat indicator
bcap1	*		bearer capab.
bcap2	–		bearer capab.
cau	–		cause
cccap	*		cc capabilities O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallProced_01(Ti : TI)
PDU Type : CALL_PROC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An CALL PROCEEDING message with mandatory IE’s only.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000010’B		message type
bcri	–		BC repeat indicator
bcap1	–		bearer capab.
bcap2	–		bearer capab.
fie	–		facility
pi	–		progress indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallProced_03
PDU Type : CALL_PROC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An CALL PROCEEDING message templet used for CallProcGen

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000010’B		message type
bcri	−		BC repeat indicator
bcap1	−		bearer capab.
bcap2	−		bearer capab.
fie	−		facility
pi	−		progress indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CallProced_inv_02(Ti : TI)
PDU Type : CALL_PROC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : used as an invalid CC message.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000010’B		message type
bcri	’01011110’B		unknown IEI −− called party BCD number
bcap1	Bcap_02		length =1, arbitrary contents
bcap2	−		bearer capab.
fie	−		facility
pi	−		progress indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_01(Ti : TI)
PDU Type : CCST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC STATUS message to match any received CC STATUS.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		CC protocol discriminator
mt	’0?111101’B		message type
cau	?		cause
cst	?		call state
acst	*		auxiliary status

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_02(ti : TI)
PDU Type : CCST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A STATUS message containing cause value #97

Field Name	Field Value	Field Encoding	Comments
ti	ti		’1000’B
ccpd	’0011’B		CC protocol discriminator
mt	’0?111101’B		message type
cau	Cause_02		cause #97
cst	?		call state
acst	*		auxiliary status

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_03(Ti : TI)
PDU Type : CCST_PDU
Derivation Path : CCStatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : CC STATUS message containing cause value #98

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cau	Cause_03		cause #98

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_04(Ti : TI)
PDU Type : CCST_PDU
Derivation Path : CCStatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : A CC STATUS message containing cause value #96

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cau	Cause_04		cause #96

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_08(Ti : TI; st : INTEGER)
PDU Type : CCST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC STATUS message to match a received CC STATUS containing CC state 'st', cause = #97

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?111101'B		message type
cau	Cause_02		#97
cst	CallState_01(st)		
acst	*		auxiliary status

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_14(Ti : TI; st : INTEGER)
PDU Type : CCST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC STATUS message to match a received CC STATUS containing CC state = 'st', cause = #30

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?111101'B		message type
cau	Cause_18		#30
cst	CallState_01(st)		
acst	*		auxiliary status

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatus_inv_01(ti : TI)
PDU Type : CCST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC STATUS message without mandatory cause IE and call state IE.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		CC protocol discriminator
mt	’00111101’B		message type
cau	–		cause
cst	–		call state
acst	–		auxiliary status

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CCStatusEq_01(Ti : TI)
PDU Type : CCST_ENQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A STATUS ENQUIRY message

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		
mt	’00110100’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoAck_01(chmd : CHMOD; chd: CHD)
PDU Type : CHMMO_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010111’B		message type
chd	chd		TCH/F
chmod	chmd		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoAck_02(chmd : CHMOD; chd : CHD)
PDU Type : CHMMO_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010111’B		message type
chd	chd		TCH/H
chmod	chmd		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoAck_08(type : CH_TDMA; chmd : B_8; slot : SN; tsc :TSC; arfcn : INTEGER)
PDU Type : CHMMO_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010111’B		message type
chd	ChDescrp_nfh(type, slot, tsc, arfcn)		channel description
chmod	ChMod(chmd)		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoReq_01(chmd : CHMOD; chd : CHD)
PDU Type : CHMMO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : the channel being modified is default full rate traffic channel.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010000’B		message type
chd	chd		TCH/F
chmod	chmd		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoReq_02(chmd : CHMOD; chd : CHD)
PDU Type : CHMMO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010000’B		message type
chd	chd		TCH/H
chmod	chmd		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChmomoReq_07(type: CH_TDMA; chmd: B_8; slot: SN; tsc: TSC; arfcn: INTEGER)
PDU Type : CHMMO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010000’B		message type
chd	ChDescrp_nfh(type, slot, tsc, arfcn)		channel description
chmod	ChMod(chmd)		channel mode

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRelease_01
PDU Type : CH_REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL RELEASE message with RR cause = normal event

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00001101’B		
rrcau	’00000000’B		normal event

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRelease_inv_01
PDU Type : CH_REL_PDU
Derivation Path : ChRelease_01.
Encoding Rule Name :
Encoding Variation :
Comments : An invalid CHANNEL RELEASE message without mandatory IE RR cause

Field Name	Field Value	Field Encoding	Comments
rrcau	–		mandatory field missing

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRelease_inv_02
PDU Type : CH_REL_PDU
Derivation Path : ChRelease_01.
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL RELEASE message containing incorrect skip indicator 6.

Field Name	Field Value	Field Encoding	Comments
ski	’0110’B		erroneous value

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRelease_inv_03
PDU Type : CH_REL_PDU_ERR
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL RELEASE message containing additional IE unknown in the RR protocol

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00001101’B		
rrcau	’00000000’B		normal event
add	’6205AA55EF6701’O		additional unknown IE

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_01
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL REQUEST message containing establishment cause = answer to paging.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’100?????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_02
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CHANNEL REQUEST message

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'????????'B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_03
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message containing establishment cause = '0001'B, "other procedures which can be completed with an SDCCH".

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0001????'B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_04
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message which originates a call (establishment cause = '111'B), "Originating call and TCH/F is needed, or IMSI detach, SMS or SS procedures that can be completed with an SDCCH and NECI set to 0".

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'111????'B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_05
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message containing establishment cause = ’0100’B, "Originating speech call from dual−rate mobile station when TCH/H is sufficient and the network sets NECI bit to 1"

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’0100????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_06
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message which originates a half rate data call (establishment cause = ’0101’B).

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’0101????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_07
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’0010’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’0010????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_08
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’0011’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’0011????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_09
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’000’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’000?????’B		location updating

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_10
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL REQUEST message with establishment cause = ’110’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’110?????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_11
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’011010’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’011010??’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_12
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’100’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’100?????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_13
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’100’B or ’0010’B or ’0001’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	(’100?????’B, ’0010????’B, ’0001????’B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_14
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’100’B or ’0011’B or ’0001’B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	(’100?????’B, ’0011????’B, ’0001????’B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_15
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’111’B or ’0100’B or ’0101’B −−− initiate outgoing call or SDCCH other procedures.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	(’111?????’B, ’0100????’B, ’0101????’B, ’101?????’B, ’0001????’B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_16
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = ’101’B for emergency call.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	’101?????’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_17
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CHANNEL REQUEST message containing establishment cause = 100, 0010, 0011, 0001

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	('100?????'B, '0010????'B, '0011????'B, '0001????'B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_18
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = '0000'B.

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0000????'B		location updating, NECI = 1

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ChRequest_19
PDU Type : CH_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CHANNEL REQUEST message with establishment cause = '111'B or '101'B −−− initiate outgoing call

Field Name	Field Value	Field Encoding	Comments
ecau_rrf	('111?????'B, '101?????'B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ClassChange_01
PDU Type : CLM_CHN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CLASSMARK CHANGE message containing classmark2 indicating original rf power class

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010110’B		message type
msclm	ClassMark2		mobile station classmark 2
msclm_adi	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ClassChange_02
PDU Type : CLM_CHN_PDU
Derivation Path : ClassChange_01.
Encoding Rule Name :
Encoding Variation :
Comments : CLASSMARK CHANGE message containing classmark2 indicating new rf power class due to addition of power amplification

Field Name	Field Value	Field Encoding	Comments
msclm	ClassMark2Amp		mobile station classmark 2 with external RF amplifier

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ClassChange_03
PDU Type : CLM_CHN_PDU
Derivation Path : ClassChange_01.
Encoding Rule Name :
Encoding Variation :
Comments : CLASSMARK CHANGE message containing classmark2 indicating original rf power class and possible classmark3.

Field Name	Field Value	Field Encoding	Comments
msclm	ClassMark2		mobile station classmark
msclm_adi	ClassMark3 IF_PRESENT		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ClassMarkEnq_01
PDU Type : CLM_ENQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010011’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMReEstReq_02(mi : MI; lai : LAI; cksn : B_3)
PDU Type : CMRE_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
mmpd	’0101’B		MM protocol discriminator
mt	’0?101000’B		message type
shoct	’0000’B		spare half octet
cphksn	CphKeySN_01(cksn)		
msclm	ClassMark2		default from PIXIT
mi	mi		default TMSI
lai	lai IF_PRESENT		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceAcp_01
PDU Type : CMS_ACP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : a CM SERVICE ACCEPT message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		mm
mt	’00100001’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceRej_01
PDU Type : CMS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : reject cause = 'service or option not available, unspecified"

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	'20'O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceRej_02
PDU Type : CMS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : reject cause = "IMEI not accepted"

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	'05'O		"IMEI not accepted"

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceRej_03
PDU Type : CMS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : reject cause = "Service Option not supported"

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	'20'O		"Service Option not supported"

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceRej_04
PDU Type : CMS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : reject cause = 'network failure"

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	'11'O		network failure

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceRej_30(par: REJCAU)
PDU Type : CMS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : reject cause = 'service or option not available, unsepcified"

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
mmpd	'0101'B		MM protocol discriminator
mt	'00100010'B		message type
mmcau	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_01
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	?		
svtype	?		
msclm	?		
mi	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_02
PDU Type : CMS_RQ_PDU
Derivation Path : CMServiceReq_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match a received CM SERVICE REQUEST message containing mobile station classmark 2 indicating new RF power capability.

Field Name	Field Value	Field Encoding	Comments
msclm	ClassMark2Amp		mobile station classmark 2 with external RF amplifier

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_04
PDU Type : CMS_RQ_PDU
Derivation Path : CMServiceReq_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match a received CM SERVICE REQUEST message containing CM service type = "Mobile originating call establishment or packet mode connection establishment" or " emergency call establishment".

Field Name	Field Value	Field Encoding	Comments
svtype	(’0001’B, ’0010’B)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_05(mi : MI)
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message for emergency call with IMEI.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?100100’B		
cphksn	?		
svtype	C_CMServiceTypeE		emergency call.
msclm	?		
mi	mi		TSPX_IMEI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_06(cksn : B_3)
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message for emergency call with TMSI and correct CKSN.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?100100’B		
cphksn	CphKeySN_01(cksn)		default CKSN
svtype	C_CMServiceTypeE		emergency call.
msclm	?		
mi	MiTmsi_01		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_07
PDU Type : CMS_RQ_PDU
Derivation Path : CMServiceReq_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message for emergency call with IMEI and CKSN indicating "no key is available’.

Field Name	Field Value	Field Encoding	Comments
cphksn	CphKeySN_06		no key is available
svtype	C_CMServiceTypeE		emergency call.
msclm	ClassMark2		
mi	MiImei_01		IMEI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_08
PDU Type : CMS_RQ_PDU
Derivation Path : CMServiceReq_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CM SERVICE REQUEST message indicating " supplementary service activation"

Field Name	Field Value	Field Encoding	Comments
svtype	’1000’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_09
PDU Type : CMS_RQ_PDU
Derivation Path : CMServiceReq_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match the received CM SERVICE REQUEST message indicating " short message transfer"

Field Name	Field Value	Field Encoding	Comments
svtype	’0100’B		Short message service

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_30(parexpected_mi: MI)
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?100100’B		
cphksn	?		
svtype	?		
msclm	?		
mi	parexpected_mi		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_31(parexpected_mi: MI; cksn: BITSTRING)
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?100100’B		
cphksn	CphKeySN_07(cksn)		
svtype	C_CMServiceTypeE		
msclm	?		
mi	parexpected_mi		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CMServiceReq_32(parexpected_mi: MI; cksn: BITSTRING)
PDU Type : CMS_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CM SERVICE REQUEST message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?100100’B		
cphksn	CphKeySN_07(cksn)		
svtype	?		
msclm	?		
mi	parexpected_mi		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Connect_01(ti : TI)
PDU Type : CONN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT message matching any received value

Field Name	Field Value	Field Encoding	Comments
ti	ti		’1000’B
ccpd	’0011’B		CC protocol discriminator
mt	’0?000111’B		
fie	*		
pi	–		
cnn	–		connected number
cns	*		connected subaddress
uu	*		
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Connect_02(Ti : TI)
PDU Type : CONN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT message containing mandatory IE's only.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000111'B		
fie	–		
pi	–		
cnn	–		connected number
cns	–		connected subaddress
uu	–		
ssvi	–		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Connect_05(Ti : TI; fie : FIE)
PDU Type : CONN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CC CONNECT message containing faciliy IE.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00000111'B		
fie	fie		
pi	–		
cnn	–		connected number
cns	–		connected subaddress
uu	–		
ssvi	–		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Connect_inv_01(Ti : TI)
PDU Type : CONN_PDU_ERR
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid CONNECT message containing an optional IE coded as comprehension required.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000111’B		
unknown	UnknownIE_01		length = 1, comprehension required

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ConnectAck_01(ti : TI)
PDU Type : CONN_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CONNECT ACKNOWLEDGE message n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		CC protocol discriminator
mt	’00001111’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ConnectAck_02(Ti : TI)
PDU Type : CONN_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CONNECT ACKNOWLEDGE message

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?001111’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_01
PDU Type : CPHM_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CIPHERING MODE COMMAND message, the ciphering algorithm is specified by PIXIT.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00110101’B		
cph_res	CiphRes_01		IMEISV not included
cphms	CphMod_01		ciphering "on"

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_02
PDU Type : CPHM_CMD_PDU
Derivation Path : CphModeCmd_01.
Encoding Rule Name :
Encoding Variation :
Comments : CIPHERING MODE COMMAND message with no ciphering.

Field Name	Field Value	Field Encoding	Comments
cphms	CphMod_02		no ciphering

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_03
PDU Type : CPHM_CMD_PDU
Derivation Path : CphModeCmd_01.
Encoding Rule Name :
Encoding Variation :
Comments : CIPHERING MODE COMMAND message with no ciphering and IMEI included, the ciphering algorithm is specified by PIXIT.

Field Name	Field Value	Field Encoding	Comments
cph_res	CiphRes_02		IMEISV shall be included
cphms	CphMod_02		no ciphering

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_inv_01
PDU Type : CPHM_CMD_PDU
Derivation Path : CphModeCmd_01.
Encoding Rule Name :
Encoding Variation :
Comments : Invalid CIPHERING MODE COMMAND message with mandatory IE's missing

Field Name	Field Value	Field Encoding	Comments
cph_res	–		mandatory
cphms	–		mandatory

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_inv_02
PDU Type : CPHM_CMD_PDU
Derivation Path : CphModeCmd_01.
Encoding Rule Name :
Encoding Variation :
Comments : CIPHERING MODE COMMAND message containing incorrect skip identifier

Field Name	Field Value	Field Encoding	Comments
ski	'0011'B		erroneous value

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmd_inv_03
PDU Type : CPHM_CMD_PDU_ERR
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CIPHERING MODE COMMAND message containing unknown IE

Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
rrpd	'0110'B		
mt	'00110101'B		
cph_res	CiphRes_01		IMEISV not included
cphms	CphMod_03		ciphering "on", A5/1
add	'92'O		additional unknown IE Channel Mode 2

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmp_01
PDU Type : CPHM_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received CIPHERING MODE COMPLETE message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00110010’B		message type
mei	*		mobile equipment identity

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmp_02
PDU Type : CPHM_COM_PDU
Derivation Path : CphModeCmp_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match a received CIPHERING MODE COMPLETE message without IMEI.

Field Name	Field Value	Field Encoding	Comments
mei	–		no mobile equipment identity

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CphModeCmp_03
PDU Type : CPHM_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received CIPHERING MODE COMPLETE message containing IMEI.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00110010’B		message type
mei	MiImeisv_01iei		mobile equipment identity

Detailed Comments :

PDU Constraint Declaration

Constraint Name : DisconnS(Ti : TI; cau : CAU; progind : PI; uuinf : UU)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A DISCONNECT message that contains cause = normal clearing and progress indicator = #8.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		
mt	’00100101’B		
cau	cau		
fie	–		
pi	progind		
uu	uuinf		
ssvi	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : DisconnR(Ti : TI; cau : CAU)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A default DISCONNECT message matching parametrised value ms –> n.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		
mt	’0?100101’B		
cau	cau		
fie	*		
pi	*		
uu	*		
ssvi	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Disconn_10(Ti : TI)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received DISCONNECT message containing transaction identifier = Ti , cause #68 and facility_IE45 for ForarwdChargeAdvice ReturnResult ms −> n.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	’0011’B		
mt	’0?100101’B		
cau	Cause_Def		
fie	facilityIErcviei(FwdChAdvRslt_01)		
pi	*		
uu	*		
ssvi	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Disconn_inv_01(ti : TI)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A DISCONNECT message containing cause value #16 and location = user, the transaction ID does not refer to the active call.

Field Name	Field Value	Field Encoding	Comments
ti	ti		not refer to the active call, ’0110’B
ccpd	’0011’B		
mt	’00100101’B		
cau	Cause_01		user, #16
fie	−		
pi	−		
uu	−		
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Disconn_inv_02(ti : TI)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A DISCONNECT message in which the mandatory IE cause is missing. (N −> MS)

Field Name	Field Value	Field Encoding	Comments
ti	ti		
ccpd	’0011’B		
mt	’00100101’B		
cau	−		mandatory IE missing
fie	−		
pi	−		
uu	−		
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Disconn_inv_03(ti :TI)
PDU Type : DISC_PDU_ERR
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid DISCONNECT message which contains optional unknown IEI

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		CC protocol discriminator
mt	’00100101’B		message type
cau	Cause_01		
unknown	UnknownIE_02		unknown IEI, length =1, arbitrary content.

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Disconn_inv_04(ti :TI)
PDU Type : DISC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid DISCONNECT message containing arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		
mt	’00100101’B		
cau	Cause_06		containing arbitrary spare bits
fie	−		
pi	ProgInd_01		containing arbitrary spare bits
uu	−		
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FacilityPdu_05(Ti : TI)
PDU Type : FAC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : FACILITY message, call dependent, used in TC_11_3, containing any facility iformation element ms−>n.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’0011’B		
mt	’0?111010’B		message type
fie	?		facility
ssvi	*		SS version ms −> n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FacilityPdu_25(Ti : TI; fie : FIE)
PDU Type : FAC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : FACILITY message, call dependent, n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’0011’B		
mt	’00111010’B		message type
fie	fie		facility
ssvi	−		SS version ms −> n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FacilityPdu_25_ci(Ti : TI; fie : FIE)
PDU Type : FAC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : FACILITY message, call independent, n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’00111010’B		message type
fie	fie		facility
ssvi	−		SS version ms −> n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FacilityPdu_26(Ti : TI; fie : FIE)
PDU Type : FAC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : FACILITY message, call dependent ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’0011’B		
mt	’0?111010’B		message type
fie	fie		facility
ssvi	*		SS version ms −> n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FacilityPdu_26_ci(Ti : TI; fie : FIE)
PDU Type : FAC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : FACILITY message, call independent ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’0?111010’B		message type
fie	fie		facility
ssvi	*		SS version ms −> n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FreqRedef_01(chd : CHD; ma : MA; strt : STRT; cchd : CCHD)
PDU Type : FRQRE_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010100’B		message type
chd	chd		
ma	ma		
strt	strt		
cchd	cchd		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FreqRedef_20(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma:BITSTRING; par_stime:STRT; n : INTEGER)

PDU Type : FRQRE_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Frequency Redefinition

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010100’B		message type
chd	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))		
ma	MoblAllc_20_Be1(par_ma)		
strt	par_stime		
cchd	CellChDes_20_Be(par_cchd)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FreqRedef_21(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_ma:BITSTRING; par_stime:STRT; n : INTEGER)

PDU Type : FRQRE_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Frequency Redefinition

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010100’B		message type
chd	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))		
ma	MoblAllc_20_Be1(par_ma)		
strt	par_stime		
cchd	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : FreqRedef_22(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma1:BITSTRING; par_ma2:BITSTRING; par_stime:STRT; n : INTEGER)
PDU Type : FRQRE_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Frequency Redefinition

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00010100’B		message type
chd	ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))		
ma	MoblAllc_20_Be2(par_ma1, par_ma2)		
strt	par_stime		
cchd	CellChDes_20_Be(par_cchd)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverAcc_01
PDU Type : HOACC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received HANDOVER ACCESS message

Field Name	Field Value	Field Encoding	Comments
horf	?		handover reference

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverAcc_02(horef : HORF)
PDU Type : HOACC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received HANDOVER ACCESS message with handover reference ‘ horef‘.

Field Name	Field Value	Field Encoding	Comments
horf	horef		handover reference

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmd_nfh(type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, tcharfcn : INTEGER; horf : HORF; pwlvl : B_5; synchi : SYNCHI; chmod : CHMOD; rtdif : TDIF; ta : TA; cphms : CPHMS)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An HANDOVER COMMAND indicating finely synchronised intra cell handover.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101011’B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_nfh(type, slot, tsc, tcharfcn)		
horf	horf		from PIXIT
pcmd	Pcmd_20(pwlvl)		
synchi	synchi		
frqsl_at	–		
frql_at	–		
cchd	–		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
frqchs_at	–		
ma_at	–		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmd_fh(type : CH_TDMA; slot : SN; tsc : TSC; ncc, bcc : B_3; sdccharfcn, mod, hsn : INTEGER; horf : HORF; pwlvl : B_5; synchi : SYNCHI; frql1, frql2 : FRQL; cchd : CCHD; chmod : CHMOD; frqchs : FRQCHS; ma : MA; rtdif : TDIF; ta : TA; cphms : CPHMS)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A derived HANDOVER COMMAND containing TCH/F_FH in non synchronized new CELL A.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101011’B		
cd	CellDescrp(ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_fh(type, slot, tsc, INT_TO_BIT((TSPX_MAIO MOD mod), 6), INT_TO_BIT(hsn, 6))		
horf	horf		Hand over reference
pcmd	Pcmd_20(pwlvl)		power level
synchi	synchi		
frqsl_at	frql1		
frql_at	frql2		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
frqchs_at	frqchs		
ma_at	ma		
strt	–		
rtdif	rtdif		
ta	ta		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	cphms		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmd(ncc, bcc : B_3; slot : SN; tsc : TSC; cchd : CCHD; strt : STRT; arfcn: INTEGER; type : CH_TDMA; maio1, maio2, hsn1, hsn2 : INTEGER; horf : HORF; pwlvl : INTEGER; synchi : SYNCHI; chmod : CHMOD; ma1, ma2 : MA; cphms : CPHMS)

PDU Type : HO_CMD_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : non synchronised, no ciphering for GSM

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101011’B		
cd	CellDescrp(ncc, bcc, arfcn)		
ch1d_at	ChDescrp_fh(type, slot, tsc, INT_TO_BIT(maio1, 6), INT_TO_BIT(hsn1, 6))		
horf	horf		
pcmd	Pcmd_19(INT_TO_BIT(pwlvl, 5))		
synchi	synchi		
frqsl_at	–		
frql_at	–		
cchd	cchd		
ch1mod	chmod		
ch2d_at	–		
ch2mod	–		
frqchs_at	–		
ma_at	ma1		
strt	strt		
rtdif	–		
ta	–		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	ChDescrp_fhiei(type, slot, tsc, INT_TO_BIT(maio2, 6), INT_TO_BIT(hsn2, 6))		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	ma2		
cphms	cphms		

Detailed Comments : used in TC_26_6_13_5 only.

PDU Constraint Declaration

Constraint Name : HandOverCmd_inv_01(slot : SN; tsc : TSC; ncc, bcc : B_3; arfcn : INTEGER)
PDU Type : HO_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid HANDOVER COMMAND containing incorrect skip indicator.

Field Name	Field Value	Field Encoding	Comments
ski	’0101’B		erroneous value
rrpd	’0110’B		
mt	’00101011’B		
cd	CellDescrp(ncc, bcc , arfcn)		
ch1d_at	ChDescrp_nfh(’00001’B, slot, tsc, arfcn)		
horf	’00000001’B		
pcmd	Pcmd_19(’01000’B)		
synchi	–		
frqsl_at	–		
frql_at	–		
cchd	–		
ch1mod	–		
ch2d_at	–		
ch2mod	–		
frqchs_at	–		
ma_at	–		
strt	–		
rtdif	–		
ta	–		
frqsl_bt	–		
frql_bt	–		
ch1d_bt	–		
ch2d_bt	–		
frqchs_bt	–		
ma_bt	–		
cphms	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmd_inv_02(slot : SN; tsc : TSC; ncc, bcc : B_3; arfcn : INTEGER)
PDU Type : HO_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : HANDOVER COMMAND which contains, in the non−imperative part, an IE encoded as comprehension required.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101011’B		
cd	CellDescrp(ncc, bcc , arfcn)		
ch1d_at	ChDescrp_nfh(’00001’B, slot, tsc, C_arfcnA)		
horf	’00000001’B		
pcmd	Pcmd_19(’01000’B)		
synchi	Synchi_01		comprehension required IEI
frqsl_at	Frql_01		length = 1, unrecognised IE contents
frql_at	−		
cchd	−		
ch1mod	−		
ch2d_at	−		
ch2mod	−		
frqchs_at	−		
ma_at	−		
strt	−		
rtdif	−		
ta	−		
frqsl_bt	−		
frql_bt	−		
ch1d_bt	−		
ch2d_bt	−		
frqchs_bt	−		
ma_bt	−		
cphms	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmp_01
PDU Type : HO_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received HANDOVER COMPLETE message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00101100’B		message type
rrcau	?		RR cuase
motdif	*		mobile observed time difference

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOverCmp_20
PDU Type : HO_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A basic received constraint for HANDOVER COMPLETE message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00101100’B		message type
rrcau	’00000000’B		RR cause: normal event
motdif	*		mobile observed time difference

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOvFail_01
PDU Type : HOFL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A HANDOVER FAILURE message matching any RR cause.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101000’B		
rrcau	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HandOvFail_02
PDU Type : HOFL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A HANDOVER FAILURE message matching any abnormal release RR cause.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00101000’B		
rrcau	(’00000001’B, ’00000010’B, ’00000011’B, ’00000100’B, ’01101111’B)		abnormal release causes

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Holdpdu_01(Ti : TI)
PDU Type : HOLD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?011000’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : HoldAckpdu_01(Ti : TI)
PDU Type : HOLD_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00011001’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDResponse_01
PDU Type : ID_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IDENTITY RESPONSE message which matches any mobile identity

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?011001’B		
mi	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDResponse_02
PDU Type : ID_RES_PDU
Derivation Path : IDResponse_01.
Encoding Rule Name :
Encoding Variation :
Comments : An IDENTITY RESPONSE message which matches TMSI of the MS under test

Field Name	Field Value	Field Encoding	Comments
mi	MiTmsi_01		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDResponse_30(par:MI)
PDU Type : ID_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IDENTITY RESPONSE message which matches the given MI of the MS under test.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?011001’B		
mi	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDRequest_01(type : B_4)
PDU Type : ID_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IDENTITY REQUEST message with specified identity type.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00011000’B		
shoct	’0000’B		
idtype	type		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDRequest_inv_01(skip :INTEGER)
PDU Type : ID_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IDENTITY REQUEST message with incorrect skip indicator.

Field Name	Field Value	Field Encoding	Comments
ski	INT_TO_BIT(skip, 4)		incorrect skip indicator
mmpd	’0101’B		
mt	’00011000’B		
shoct	’0000’B		
idtype	’0001’B		IMSI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDRequest_inv_02
PDU Type : ID_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IDENTITY REQUEST message of which the identity type is coded as reserved value

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00011000’B		
shoct	’0000’B		
idtype	’1111’B		reserved value

Detailed Comments :

PDU Constraint Declaration

Constraint Name : IDRequest_inv_03
PDU Type : ID_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IDENTITY REQUEST message containing arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00011000’B		
shoct	’1010’B		arbitrary spare bits
idtype	’1100’B		arbitrary spare bits, TMSI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_01Def(Rr: BITSTRING; Fn: FN; sub : B_2; slot : SN; tsc : TSC; par_arfcn : INTEGER; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub)), 5), slot, tsc, par_arfcn)		SDCCH/4 subchannel
rqr	Rqr2(Rr, Fn)		
ta	ta		0 time advance IE
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_02(Rr: BITSTRING; Fn: FN; ta : TA; chd : CHD; ma : MA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign a frequency hopping channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		assigned in sending statement
rqr	Rqr2(Rr, Fn)		
ta	ta		30 bits
ma	ma		assigned in sending statement
strt	–		
iaroct	IaRestOct_06		3 ’2B’ octets

Detailed Comments : Used only in TC_26_6_6_1

PDU Constraint Declaration

Constraint Name : ImmAsgn_nfh(Rr: BITSTRING; Fn: FN; type: CH_TDMA; slot : SN; tsc : TSC; ta : TA; arfcn: INTEGER; pgm : B_2)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign TCH/F or TCH/H channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(pgm)		paging mode
chd	ChDescrp_nfh(type, slot, tsc, arfcn)		Traffic channel, non hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_221(Rr : BITSTRING; Fn : FN; ts_ccch : SN; tsc : TSC; par_chtype : CH_TDMA; maio : MAIO; hsn : HSN; ta : TA; ma : MA; iel : LENGTH)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((11 + OC_OctToInt(iel)) * 4) + 1, 1)		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(par_chtype, ts_ccch, tsc, maio, hsn)		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	ma		
strt	–		
iaroct	IaRestOct(iel)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_27(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; par_arfcn: INTEGER; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 NonFH channel in any cell.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_nfh(ts_ccch, TSPX_TscDef, TSPX_SDCCH8SubDef, par_arfcn)		SDCCH/8, non hopping,
rqr	Rqr2(Rr, Fn)		
ta	ta		time advance IE
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_E_01(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; tsc : TSC; par_arfcn: INTEGER; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 NonFH channel in any cell.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_nfh(ts_ccch, tsc, TSPX_SDCCH8SubA, par_arfcn)		SDCCH/8, non hopping,
rqr	Rqr2(Rr, Fn)		
ta	ta		0 time advance IE
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_E_02(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 FH channel in EGSM cases.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’31’O		L2 pseudo length = 12 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		
chd	ChDescrp_sdcch8_fh(ts_ccch, tsc, TSPX_SDCCH8SubB, INT_TO_BIT((TSPX_MAIO MOD 4), 6), INT_TO_BIT(TSPX_HSN, 6))		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_281e		
strt	–		
iaroct	IaRestOct_02		10 Bytes

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_inv_01(Rr :BITSTRING; Fn : FN; slot : SN; tsc : TSC; arfcn : INTEGER; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IMMEDIATE ASSIGNMENT message with unknown skip indicator (’0001’B)

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0001’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5), slot, tsc, arfcn)		SDCCH/4 subchannel, non hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		0 time advance IE
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_inv_04(Rr :BITSTRING; Fn : FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IMMEDIATE ASSIGNMENT message containing arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’1010’B		arbitrary spare bits
pm	Pm_02		with arbitrary spare bits
chd	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5), slot, tsc, arfcn)		with arbitrary spare bits
rqr	Rqr2(Rr, Fn)		
ta	ta		arbitrary spare bits
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_05		all octets are diffrent from ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r(chd : CHD ; Rr : BITSTRING ; Fn : FN; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		
rqr	Rqr2(Rr, Fn)		
ta	ta		30 bit periods of time advance
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r02(Rr: BITSTRING; Fn: FN; sub : B_3; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_nfh(slot, tsc, sub, arfcn)		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r13(Rr: BITSTRING; Fn: FN; chd : CHD; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign TCH/F channel with a time advance of 30 bit periods.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		TCH/F + ACCHs
rqr	Rqr2(Rr, Fn)		
ta	ta		30 bit periods of time advance
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r14(Rr: BITSTRING; Fn: FN; chd : CHD; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign TCH/H channel with a time advance of 30 bit periods.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		TSPX_TCHHSubA
rqr	Rqr2(Rr, Fn)		
ta	ta		30 bit periods of time advance
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r27(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_1.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubA, INT_TO_BIT(TSPX_Maio1, 6), INT_TO_BIT(TSPX_Hsn1, 6))		TSPX_SDCCH8SubA, hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r05		
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r28(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_2 .

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubB, INT_TO_BIT(TSPX_Maio4, 6), INT_TO_BIT(TSPX_Hsn4, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r08		TSPX_Ma4
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r29(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_3.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'39'O		L2 pseudo length = 14 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(TSPX_Chtp3, slot, tsc, INT_TO_BIT(TSPX_Maio6, 6), INT_TO_BIT(TSPX_Hsn6, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r10		
strt	–		
iaroct	IaRestOct_08		8 octets of '2B'O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r30(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message for TC_26_6_13_4.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(TSPX_Chtp5, slot, tsc, INT_TO_BIT(TSPX_Maio10, 6), INT_TO_BIT(TSPX_Hsn10, 6))		SDCCH8, hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r14		
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r31(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_5.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubB, INT_TO_BIT(TSPX_Maio14, 6), INT_TO_BIT(TSPX_Hsn14, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r18		
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r32(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_6.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubC, INT_TO_BIT(TSPX_Maio17, 6), INT_TO_BIT(TSPX_Hsn17, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r21		TSPX_Ma17
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r33(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_7.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'39'O		L2 pseudo length = 14 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(TSPX_Chtp9, slot, tsc, INT_TO_BIT(TSPX_Maio20, 6), INT_TO_BIT(TSPX_Hsn20, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r24		TSPX_Ma20
strt	–		
iaroct	IaRestOct_08		8 octets of '2B'O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r34(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_8.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’39’O		L2 pseudo length = 14 octets
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_fh(TSPX_Chtp11,slot, tsc, INT_TO_BIT(TSPX_Maio24, 6), INT_TO_BIT(TSPX_Hsn24, 6))		hopping
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r28		TSPX_Ma24
strt	–		
iaroct	IaRestOct_08		8 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r35(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA; starttm : STRT; chd : CHD)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_9.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'45'O		L2 pseudo length = 17 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		hopping, after time
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r32		TSPX_Ma28
strt	starttm		
iaroct	IaRestOct_03		INT_TO_BIT(TSPX_Maio29, 6), TSPX_Ma29, before time

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_r36(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA; starttm : STRT; chd :CHD)
PDU Type : IMMASS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_10.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'45'O		L2 pseudo length = 17 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
shoct	'0000'B		
pm	Pm(C_normal_paging)		normal mode
chd	chd		hopping, after time
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_r33		TSPX_Ma30
strt	starttm		
iaroct	IaRestOct_04		INT_TO_BIT(TSPX_Maio31, 6), TSPX_Ma31, before time

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgn_sdcch8(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; subch : B_3; arfcn : INTEGER; ta : TA)

PDU Type : IMMASS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH8 channel

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11 octets for non hopping, no starting time
ski	’0000’B		
rrpd	’0110’B		
mt	’00111111’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd	ChDescrp_sdcch8_nfh(slot, tsc, subch, arfcn)		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAllc_01		non hopping
strt	–		
iaroct	IaRestOct_01		11 octets of ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_01(Rr: BITSTRING; Fn: FN; sub1, sub2 : B_3; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT EXTENDED message to assign SDCCH/8 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_extended_paging)		extended paging
chd1	ChDescrp_sdcch8_nfh(slot, tsc, sub1, arfcn)		SDCCH/8, non hopping
rqr1	Rqr2(Rr, Fn)		
ta1	ta		from PIXIT
chd2	ChDescrp_sdcch8_nfh(slot, tsc, sub2, arfcn)		an another SDCCH/8 subchannel
rqr2	Rqr2(Rr, Fn)		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_02(slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT EXTENDED message containing paging mode = paging reorganisation and Request References that do not pertain to MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_reorg_paging)		paging reorganisation
chd1	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)		SDCCH/8, non hopping
rqr1	Rqr3		
ta1	ta		from PIXIT
chd2	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, C_arfcnA)		an another SDCCH/8 subchannel
rqr2	Rqr3		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_03(slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT EXTENDED message containing paging mode = paging reorganisation and Request References that do not pertain to MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_reorg_paging)		paging reorganisation
chd1	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)		SDCCH/4, non hopping, channel number 20
rqr1	Rqr3		
ta1	ta		from PIXIT
chd2	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, 30)		an another SDCCH/4 subchannel
rqr2	Rqr3		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_04(slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT EXTENDED message containing paging mode = paging reorganisation and Request References that do not pertain to MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_reorg_paging)		paging reorganisation
chd1	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)		
rqr1	Rqr3		
ta1	ta		from PIXIT
chd2	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, 30)		an another SDCCH/4 subchannel
rqr2	Rqr3		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_r01(Rr: BITSTRING; Fn: FN; Rr_9: BITSTRING; Fn_9: FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd1	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubA)), 5), slot, tsc, arfcn)		SDCCH/4, non hopping, channel number 20
rqr1	Rqr2(Rr, Fn)		
ta1	ta		from PIXIT
chd2	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubB)), 5), slot, tsc, arfcn)		an another SDCCH/4 subchannel
rqr2	Rqr2(Rr_9, Fn_9)		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_r02(Rr: BITSTRING; Fn: FN; Rr_9: BITSTRING; Fn_9: FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
chd1	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, arfcn)		SDCCH/8, non hopping
rqr1	Rqr2(Rr, Fn)		
ta1	ta		from PIXIT
chd2	ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubC, arfcn)		an another SDCCH/8 subchannel
rqr2	Rqr2(Rr_9, Fn_9)		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnX_r03(Rr: BITSTRING; Fn: FN; sub1, sub2 : B_2; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)

PDU Type : IMMASSX_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00111001’B		
shoct	’0000’B		
pm	Pm(C_extended_paging)		extended mode
chd1	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub1)), 5), slot, tsc, arfcn)		SDCCH/4, non hopping
rqr1	Rqr2(Rr, Fn)		
ta1	ta		from PIXIT
chd2	ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub2)), 5), slot, tsc, arfcn)		an another SDCCH/4 subchannel
rqr2	Rqr2(Rr, Fn)		
ta2	ta		from PIXIT
ma	MoblAllc_01		non hopping
strt	–		
iaxroct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_01(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00111010’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
rqr1	Rqr2(Rr, Fn)		
wi1	’00’H		
rqr2	Rqr2(Rr, Fn)		
wi2	’00’H		
rqr3	Rqr2(Rr, Fn)		
wi3	’00’H		
rqr4	Rqr2(Rr, Fn)		
wi4	’00’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_02(Rr : BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message in which only the third request reference addresses the MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00111010’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
rqr1	Rqr1(Rr, Fn)		not address the MS under test
wi1	’02’H		
rqr2	Rqr1(Rr, Fn)		not address the MS under test
wi2	’02’H		
rqr3	Rqr2(Rr, Fn)		address the MS under test
wi3	’00’H		
rqr4	Rqr1(Rr, Fn)		not address the MS under test
wi4	’02’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_03(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path : ImmAsgnRej_01.
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 5 seconds.

Field Name	Field Value	Field Encoding	Comments
rqr1	Rqr2(Rr, Fn)		
wi1	’05’H		
rqr2	Rqr2(Rr, Fn)		
wi2	’05’H		
rqr3	Rqr2(Rr, Fn)		
wi3	’05’H		
rqr4	Rqr2(Rr, Fn)		
wi4	’05’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_04(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path : ImmAsgnRej_01.
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 6 seconds.

Field Name	Field Value	Field Encoding	Comments
rqr1	Rqr2(Rr, Fn)		
wi1	’06’H		
rqr2	Rqr2(Rr, Fn)		
wi2	’06’H		
rqr3	Rqr2(Rr, Fn)		
wi3	’06’H		
rqr4	Rqr2(Rr, Fn)		
wi4	’06’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_inv_01(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path : ImmAsgnRej_01.
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IMMEDIATE ASSIGNMENT REJECT message with skip indicator = 2, reject time = 255 s.

Field Name	Field Value	Field Encoding	Comments
ski	’0010’B		skip =2
rqr1	Rqr2(Rr, Fn)		
wi1	’FF’H		255 s
rqr2	Rqr2(Rr, Fn)		
wi2	’FF’H		
rqr3	Rqr2(Rr, Fn)		
wi3	’FF’H		
rqr4	Rqr2(Rr, Fn)		
wi4	’FF’H		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_inv_02(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path : ImmAsgnRej_01.
Encoding Rule Name :
Encoding Variation :
Comments : An invalid IMMEDIATE ASSIGNMENT REJECT message containing arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
shoct	’1010’B		arbitrary spare bits
pm	Pm(C_normal_paging)		normal mode
rqr1	Rqr2(Rr, Fn)		
rqr2	Rqr2(Rr, Fn)		
wi2	TSPX_T3122		
rqr3	Rqr2(Rr, Fn)		
wi3	TSPX_T3122		
rqr4	Rqr2(Rr, Fn)		
wi4	TSPX_T3122		
iarroct	’010101’O		all octets are different from ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_r01(rqr1, rqr2, rqr3, rqr4: RQR; t1, t2: INTEGER)
PDU Type : IMMASS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message in which only the second and the third request reference addresses the MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00111010’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
rqr1	rqr1		not address the MS under test
wi1	’00’H		
rqr2	rqr2		
wi2	INT_TO_HEX(t1, 2)		
rqr3	rqr3		
wi3	INT_TO_HEX(t2, 2)		
rqr4	rqr4		not address the MS under test
wi4	’00’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_r02(Rr: BITSTRING; Fn: FN)
PDU Type : IMMASS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00111010’B		
shoct	’0000’B		
pm	Pm(C_normal_paging)		normal mode
rqr1	Rqr2(Rr, Fn)		
wi1	’00’H		
rqr2	Rqr1(Rr, Fn)		
wi2	’00’H		
rqr3	Rqr1(Rr, Fn)		
wi3	’00’H		
rqr4	Rqr1(Rr, Fn)		
wi4	’00’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImmAsgnRej_r04
PDU Type : IMMASS_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An IMMEDIATE ASSIGNMENT REJECT message containing paging mode = "extended paging"and wait indication = 0 seconds. The Request References do not pertain to MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00111010’B		
shoct	’0000’B		
pm	Pm(C_extended_paging)		extended paging mode
rqr1	Rqr3		
wi1	’00’H		
rqr2	Rqr3		
wi2	’00’H		
rqr3	Rqr3		
wi3	’00’H		
rqr4	Rqr3		
wi4	’00’H		
iarroct	’2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImsiDetach_01
PDU Type : IMSID_IN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : IMSI DETACH INDICATION message matching any MS classmark1 value and any mobile identity value

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?000001’B		
msclm	?		any mobile station classmark1
mi	?		any mobility identity

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ImsiDetach_30(par:MI)
PDU Type : IMSID_IN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : IMSI DETACH INDICATION message matching any MS classmark1 value and given IMSI.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?000001’B		
msclm	?		any mobile station classmark1
mi	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtAcp(mcc, mnc, lac : OCTETSTRING)
PDU Type : LUP_ACP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A LOCATION UPDATING ACCEPT message without mobile identity and LAI of PLMN2.
LAC set in TCV_lac.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00000010’B		
lai	LocAreaId(mcc, mnc, lac)		location area identification
mi	–		
fop	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtAcp_01(newmi: MI; mcc, mnc, lac : OCTETSTRING)
PDU Type : LUP_ACP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To assign a new TMSI with or without mobile identity.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00000010’B		
lai	LocAreaId(mcc, mnc, lac)		location area identification
mi	newmi		
fop	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtAcp_02(mcc, mnc, lac:OCTETSTRING)
PDU Type : LUP_ACP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To assign a new TMSI.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00000010’B		
lai	LocAreaId(mcc, mnc, lac)		location area identification
mi	–		
fop	’10100001’B		Follow on proceed IE is included.

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtAcp_inv_01(mi1, mi2 : MI; mcc, mnc, lac : OCTETSTRING)
PDU Type : LUP_ACP_PDU_ERR
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Invalid LOCATION UPDATING ACCEPT message containing duplicated mobile identifier.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00000010’B		
lai	LocAreaId(mcc, mnc, lac)		
mi	mi1		
dupmi	mi2		duplicated mobile identifier

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtReq_01(locup : B_2)
PDU Type : LUP_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A LOCATION UPDATING REQUEST message containing location updating type.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?001000’B		
cphksn	?		no check required
lutype	LocUpType(locup)		
lai	?		no check required
msclm	?		no check required
mi	?		no check required

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtReq_04(locup : B_2; par : MI)
PDU Type : LUP_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : LOCATION UPDATING REQUEST message containing TMSI.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?001000’B		
cphksn	?		no check required
lutype	LocUpType(locup)		
lai	?		no check required
msclm	?		no check required
mi	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtReq_05
PDU Type : LUP_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : to match any LOCATION UPDATING REQUEST message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?001000’B		
cphksn	?		no check required
lutype	?		
lai	?		no check required
msclm	?		no check required
mi	?		no check required

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtReq_31(par:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn: BITSTRING)
PDU Type : LUP_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A parameterised LOCATION UPDATING REQUEST message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?001000’B		
cphksn	CphKeySN_07(cksn)		
lutype	LocUpType(locup)		
lai	LocAreaId(mcc, mnc, lac)		
msclm	ClassMark1		
mi	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : LocUpdtRej_01(par:REJCAU)
PDU Type : LUP_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A LOCATION UPDATING REJECT message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00000100’B		
rejcau	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MMstatus_01
PDU Type : MMST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A MM STATUS message containing reject cause value #97−− message type non−existent or not implemented

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
mmpd	’0101’B		MM protocol discriminator
mt	’0?110001’B		message type
rejcau	’61’O		reject cuase value #97

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MMstatus_02
PDU Type : MMST_PDU
Derivation Path : MMstatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : cause value = #96−− invalid mandatory information

Field Name	Field Value	Field Encoding	Comments
rejcau	’60’O		reject cuase value #96

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MMstatus_03
PDU Type : MMST_PDU
Derivation Path : MMstatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : cause value = #98 −− message type not compatible with the protocol state

Field Name	Field Value	Field Encoding	Comments
rejcau	’62’O		reject cuase value #98

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyComp_02(Ti : TI; bc : BCAP)
PDU Type : MODIFY_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : n –> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00011111’B		message type
bcap	bc		bearer capab.
llcmp	–		low layer compatib.
hlcmp	–		high layer compat.
rcsd	?		reverse call setup direction

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyComp_03(Ti : TI; bc : BCAP)
PDU Type : MODIFY_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : n –> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00011111’B		message type
bcap	bc		bearer capab.
llcmp	–		low layer compatib.
hlcmp	–		high layer compat.
rcsd	–		reverse call setup direction

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyInd_01(Ti : TI; bc : BCAP)
PDU Type : MODIFY_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?010111’B		message type
bcap	bc		bearer capab.
llcmp	*		low layer compatib.
hlcmp	*		high layer compat.
rcsd	*		reverse call setup direction

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyReq_01(Ti : TI; bc : BCAP)
PDU Type : MODIFY_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00010111’B		message type
bcap	bc		not supported by the MS
llcmp	–		Optional
hlcmp	–		Optional
rcsd	–		reverse call setup direction

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyRj_01(Ti : TI; bc : BCAP)
PDU Type : MODIFY_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?010011’B		message type
bcap	bc		bearer capab.
cau	?		cause
llcmp	*		low layer compatib.
hlcmp	*		high layer compat.

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ModifyRjRq_01(Ti : TI; bc : BCAP)
PDU Type : MODIFY_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : cause = bearer capability not presently available

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00010011’B		message type
bcap	bc		bearer capab.
cau	Cause_16		cause #58
llcmp	–		low layer compatib.
hlcmp	–		high layer compat.

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_01
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report without measurement results

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_01		containing no measurement results

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_02
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report match any received MSR_RPT_PDU.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_02		containing any value

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_03
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing results for 6 strongest carriers.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_03		6 strongest carriers

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_03e(par_measres: MSRR)
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing results for 6 strongest carriers.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	par_measres		6 strongest carriers

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_04
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing 4 strongest carriers.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_04		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_04e
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing 4 strongest carriers.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_04e		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_05
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing 6 strongest carriers and DTX was used.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_05		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_06
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing 6 strongest carriers and DTX is not checked.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_06		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : MsrReport_07
PDU Type : MSR_RPT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A measurement report containing 2 strongest carriers and DTX is not used.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		RR protocol discriminator
mt	’00010101’B		measurement message type
msrr	MsrResult_07		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : NotifiReq_01(Ti : TI)
PDU Type : NOTIFY_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Containing any valid notification indicator. n −> ms.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00111110’B		message type
nti	’10000000’B		notification indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PagingRes_01
PDU Type : PG_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received PAGING RESPONSE message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00100111’B		
shoct	’0000’B		
cphksn	?		no check requirement
msclm	?		no check requirement
mi	?		no check requirement

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PagingRes_03(cksn : B_3)
PDU Type : PG_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received PAGING RESPONSE message with default TMSI, CKSN and classmark2.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00100111’B		
shoct	’0000’B		
cphksn	CphKeySN_01(cksn)		TSPX_CKSNDef
msclm	ClassMark2		
mi	MiTmsi_01		TSPX_TMSI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PagingRes_r01
PDU Type : PG_RES_PDU
Derivation Path : PagingRes_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match any received PAGING RESPONSE message, RR tests.

Field Name	Field Value	Field Encoding	Comments
mi	MiTmsi_01		same as in the PgRq

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PagingRes_r02
PDU Type : PG_RES_PDU
Derivation Path : PagingRes_01.
Encoding Rule Name :
Encoding Variation :
Comments : To match the received PAGING RESPONSE message containing IMSI of the IUT for RR tests.

Field Name	Field Value	Field Encoding	Comments
mi	MiImsi_01		same as in the PgRq

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PagingRes_30(par:MI; cksn: BITSTRING)
PDU Type : PG_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received PAGING RESPONSE message. Used in MM test cases.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00100111’B		
shoct	’0000’B		
cphksn	CphKeySN_07(cksn)		
msclm	?		no check requirement
mi	par		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_01
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is TMSI.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’25’O		L2 pseudo length = 9
ski	’0000’B		
rrpd	’0110’B		
mt	’00100001’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_01		TSPX_TMSI
mi2	–		
p1roct	’2B2B2B2B2B2B2B2B2B2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_02
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : A PAGING REQUEST TYPE1 message to request SDCCH channel with normal paging mode for mobile identity MiTmsi_01.

Field Name	Field Value	Field Encoding	Comments
chn_m1_2	Chneed_02		SDCCH channel

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_03
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : A PAGING REQUEST TYPE1 message to request TCH/F channel with normal paging mode for mobile identity MiTmsi_01.

Field Name	Field Value	Field Encoding	Comments
chn_m1_2	Chneed_03		TCH/F channel

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_04
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : A PAGING REQUEST TYPE1 message to request TCH/H or TCH/F channel with normal paging mode for mobile identity MiTmsi_01.

Field Name	Field Value	Field Encoding	Comments
chn_m1_2	Chneed_04		TCH/F or TCH/H channel

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_05
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : PAGING REQUEST TYPE1 message with mobile identity 1 being IMSI of the MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(MiImsi_01)) * 4) + 1, 1)		
mi1	MiImsi_01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O, 19 − OC_LengthOf(MiImsi_01))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_06
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : PAGING REQUEST TYPE1 message with mobile identity 1 being IMSI of the MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(MiImsi_r01)) * 4) + 1, 1)		
pm	Pm(C_extended_paging)		extended paging
mi1	MiImsi_r01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O, 19 − OC_LengthOf(MiImsi_r01))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_07
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : PAGING REQUEST TYPE1 message with mobile identity 1 being IMSI of the MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(MiImsi_01)) * 4) + 1, 1)		
pm	Pm(C_reorg_paging)		paging reorganisation
mi1	MiImsi_01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O, 19 − OC_LengthOf(MiImsi_01))		

Detailed Comments : Only used in TC_26_6_2_4 within Pg_Req1_08

PDU Constraint Declaration

Constraint Name : PgReqTp1_30(par_usedmi: MI)
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is paramerised. It is used only in MM test cases.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(par_usedmi)) * 4) + 1, 1)		
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	par_usedmi		
mi2	−		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O, 19 − OC_LengthOf(par_usedmi))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1Norm
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : PAGING REQUEST TYPE1 message containing normal paging mode, used as paging filling message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’15’O		L2 pseudo length = 5
mi1	MiImsi_02		no identity
p1roct	’2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1Reorg
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : PAGING REQUEST TYPE1 message containing paging reorganisation mode, used as paging filling message.

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(MiImsi_02)) * 4) + 1, 1)		
pm	Pm(C_reorg_paging)		paging reorganisation
mi1	MiImsi_02		no identity
p1roct	OC_SubOctet(’2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B’O, 19 − OC_LengthOf(MiImsi_02))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_inv_01(skip : INTEGER)
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid PAGING REQUEST TYPE 1 message with incorrect skip indicator.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’25’O		L2 pseudo length = 9
ski	INT_TO_BIT(skip, 4)		
rrpd	’0110’B		
mt	’00100001’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_01		
mi2	–		
p1roct	’2B2B2B2B2B2B2B2B2B2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_inv_04
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : An invalid PAGING REQUEST TYPE1 message containing rest octets which are not all ’2B’O

Field Name	Field Value	Field Encoding	Comments
p1roct	’09021234784BFFFF2B2B2B2B2B’O		

Detailed Comments : ’agressive’ rest octet coding for 26.5.7.1.1. The first byte is coded in a manner that indicates comprehension required to a mobile that is incorrectly using the L2 pseudo length. The length of this IE is the octet after ’09’ and is set to 2. After the two bytes of content is the "next IEI". This is 78 which was the IEI allocated (but never used) in phase 1 to the RACH control parameters. The "RACH Control Parameters" are "set" to indicate that the cell barred and all access classes are prohibited.

PDU Constraint Declaration

Constraint Name : PgReqTp1_r01
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the first mobile identity is TMSI, the second is IMSI different from TSPX_IMSI.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00100001’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_01		TSPX_TMSI
mi2	MiImsi_r01iei		9 octets
p1roct	’2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_r02
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the first mobile identity is another TMSI, the second is IMSI of the IUT (TSPX_IMSI).

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((9 + OC_LengthOf(MiImsi_01iei)) * 4) + 1, 1)		
ski	’0000’B		
rrpd	’0110’B		
mt	’00100001’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_r01		an another tmsi
mi2	MiImsi_01iei		the imsi of IUT
p1roct	OC_SubOctet(’2B2B2B2B2B2B2B2B2B2B2B2B’O, 13 − OC_LengthOf(MiImsi_01iei))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_r03
PDU Type : PG1_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the first mobile identity is an another TMSI differing from different from MiTmsi_01 and _02, the second one is TMSI of the IUT, MiTmsi_01.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’41’O		L2 pseudo length = 15
ski	’0000’B		
rrpd	’0110’B		
mt	’00100001’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	MiTmsi_r01		
mi2	MiTmsi_01iei		
p1roct	’2B2B2B2B2B2B’O		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp1_r04
PDU Type : PG1_RQ_PDU
Derivation Path : PgReqTp1_01.
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is TMSI, but the identity type is set to ’no identity’.

Field Name	Field Value	Field Encoding	Comments
mi1	MiTmsi_r02		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_01
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the mobile identity is TMSI of the IUT.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		the IUT
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_02
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with extended paging mode and not addressing the MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_r01		an another MS
mi2	Tmsi_r03		an another MS
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_03
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with paging reorganisation mode, the mobile identity is TMSI of the IUT.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_reorg_paging)		paging reorganisation
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		the IUT
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B 2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_04
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with same as before paging mode, the mobile identity is TMSI of the IUT.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_sab_paging)		same as before
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		the IUT
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B 2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r01
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 1st mobile identity is TMSI of the IUT. The 2nd one addresses an another MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		an another MS
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B 2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r02
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 2nd mobile identity is TMSI of the IUT. The 1st one addresses an another MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’2D’O		L2 pseudo length = 11
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r01		an another MS
mi2	Tmsi_01		the IUT
mi3	–		
p2roct	’2B2B2B2B2B2B2B2B2B2B 2B’O		11 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r03
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 3 mobile identity is TMSI of the IUT. The 1st and 2nd one address an another MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r03		an another MS
mi2	Tmsi_r01		an another MS
mi3	MiTmsi_01iei		the IUT
p2roct	’2B2B2B2B’O		4 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r04
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 1st and 2nd mobile identity addresses an another MS. The 3rd one is IMSI of the IUT. .

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((11 + OC_LengthOf(MiImsi_01iei)) * 4) + 1, 1)		
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r03		an another MS
mi2	Tmsi_r01		an another MS
mi3	MiImsi_01iei		the IUT
p2roct	OC_SubOctet(’2B2B2B2B2B2B2B2B2B2B’O, 11 − OC_LengthOf(MiImsi_01iei))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r05
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 3 mobile identity is TMSI of the IUT with the type of no id. The 1st and 2nd one address an another MS.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r03		an another MS
mi2	Tmsi_r01		an another MS
mi3	MiTmsi_r02iei		the IUT
p2roct	’2B2B2B2B’O		4 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp2_r06
PDU Type : PG2_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE2 message requesting any channel with normal paging mode, the 1st and 2nd mobile identity addresses an another MS. The 3rd one is IMSI of the IUT. .

Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((11 + OC_LengthOf(MiImsi_01iei)) * 4) + 1, 1)		
ski	’0000’B		
rrpd	’0110’B		
mt	’00100010’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_r03		an another MS
mi2	Tmsi_r01		an another MS
mi3	MiImsi_01iei		the IUT
p2roct	OC_SubOctet(’2B2B2B2B2B2B2B2B2B2B2B’O, 11 − OC_LengthOf(MiImsi_01iei))		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_01
PDU Type : PG3_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with extended paging mode and not adressing the MS under test.

Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		L2 pseudo length = 19
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_r05		the MS under test
mi2	Tmsi_r01		not the MS under test
mi3	Tmsi_r03		not the MS under test
mi4	Tmsi_r04		not the MS under test
p3roct	'2B2B2B'O		3 octets

Detailed Comments : Only used in 26_6_2_2 within Pg_Req3_01.

PDU Constraint Declaration

Constraint Name : PgReqTp3_02
PDU Type : PG3_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message containing paging mode = "same as before".

Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		L2 pseudo length = 19
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_sab_paging)		same as before
mi1	Tmsi_r05		not the MS under test
mi2	Tmsi_r01		not the MS under test
mi3	Tmsi_r03		not the MS under test
mi4	Tmsi_r04		not the MS under test
p3roct	'2B2B2B'O		3 octets

Detailed Comments : Only used in TC_26_6_2_4 within Pg_Req3_02

PDU Constraint Declaration

Constraint Name : PgReqTp3_03
PDU Type : PG3_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message containing paging mode = "normal paging".

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00100100’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_r05		not the MS under test
mi2	Tmsi_r01		not the MS under test
mi3	Tmsi_r03		not the MS under test
mi4	Tmsi_r04		not the MS under test
p3roct	’2B2B2B’O		3 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_r01
PDU Type : PG3_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode, the 1st mobile identity is TMSI of the IUT. The 2nd, 3rd and 4th one address another MSs.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		L2 pseudo length = 19
ski	’0000’B		
rrpd	’0110’B		
mt	’00100100’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_normal_paging)		normal paging
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		an another MS
mi3	Tmsi_r03		an another MS
mi4	Tmsi_r04		an another MS
p3roct	’2B2B2B’O		3 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_r02
PDU Type : PG3_RQ_PDU
Derivation Path : PgReqTp3_r01.
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode, the 2nd mobile identity is TMSI of the IUT. The 1st, 3rd and 4th one address another MSs.

Field Name	Field Value	Field Encoding	Comments
mi1	Tmsi_r01		an another MS
mi2	Tmsi_01		the IUT

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_r03
PDU Type : PG3_RQ_PDU
Derivation Path : PgReqTp3_r01.
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode, the 3rd mobile identity is TMSI of the IUT. The 1st, 2nd and 4th one address another MSs.

Field Name	Field Value	Field Encoding	Comments
mi1	Tmsi_r03		an another MS
mi3	Tmsi_01		the IUT

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_r04
PDU Type : PG3_RQ_PDU
Derivation Path : PgReqTp3_r01.
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode, the 4th mobile identity is TMSI of the IUT. The 1st, 2nd and 3rd one address another MSs.

Field Name	Field Value	Field Encoding	Comments
mi1	Tmsi_r04		an another MS
mi4	Tmsi_01		the IUT

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PgReqTp3_r05
PDU Type : PG3_RQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An PAGING REQUEST TYPE3 message requesting any channel with normal paging mode, the 1st mobile identity is TMSI of the IUT. The 2nd, 3rd and 4th one address another MSs.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’4D’O		
ski	’0000’B		
rrpd	’0110’B		
mt	’00100100’B		
chn_m1_2	Chneed_01		any channel
pm	Pm(C_extended_paging)		extended paging
mi1	Tmsi_01		the IUT
mi2	Tmsi_r01		an another MS
mi3	Tmsi_r03		an another MS
mi4	Tmsi_r04		an another MS
p3roct	’2B2B2B’O		3 octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Phyinfor_01(ta : TA)
PDU Type : PHYINFO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00101101’B		message type
ta	ta		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Progress_01(Ti : TI)
PDU Type : PROG_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000011’B		message type
pi	ProgInd_02		call has returned to PLMN/ISDN
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Progress_02(Ti : TI)
PDU Type : PROG_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00000011’B		message type
pi	ProgInd_03		inband information available
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RegisterPdu_01
PDU Type : REGISTER_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received REGISTER message

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
sspd	('1011'B, '0011'B)		Supplementary services protocol discriminator call related or non call related.
mt	'0?111011'B		message type
fie	?		facility
ssvi	*		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RegisterPdu_03(fie : FIE)
PDU Type : REGISTER_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received REGISTER message invoking registration of CFRNy for Speech

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
sspd	'1011'B		non call related supplementary services protocol discriminator
mt	'0?111011'B		message type
fie	fie		facility
ssvi	*		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RegisterPdu_34(Ti : TI; fie : FIE)
PDU Type : REGISTER_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To send a REGISTER message containing Invoke for UnstructuredSS−Notify

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
sspd	’1011’B		Supplementary services protocol discriminator call indipendent.
mt	’00111011’B		message type
fie	fie		facility
ssvi	−		SS version indicator

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_01(ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message containing cause #96, used to match received CC RELEASE message.

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?101101’B		message type
cau	Cause_04iei		cause
cau2	*		second cause
fie	*		facility
uu	*		user−use
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_02
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message to match any received CC RELEASE message.

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?101101’B		message type
cau	*		cause
cau2	*		second cause
fie	*		facility
uu	*		user−use
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_03(Ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message containing cause #31 to be sent to the MS.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00101101’B		message type
cau	Cause_11		#31 normal unspecified
cau2	−		second cause
fie	−		facility
uu	−		user−use
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_05(Ti : TI ; Cau : CAU)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?101101’B		message type
cau	Cau		
cau2	Cause_14 IF_PRESENT		second cause
fie	*		facility
uu	*		user−use
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_06(Ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message containing cause #16 and second cause #102 to be sent to the MS.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00101101’B		message type
cau	Cause_01iei		#16 normal clearing, IEI present
cau2	Cause_23		#102
fie	−		facility
uu	−		user−use
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_08(Ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message with mandatory IE's only used in structured procedures test .

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'00101101'B		message type
cau	−		cause
cau2	−		second cause
fie	−		facility
uu	−		user−use
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Release_10(Ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A CC RELEASE message used to match any received CC RELEASE message with a controllable TI.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		CC protocol discriminator
mt	'0?101101'B		message type
cau	*		cause
cau2	*		second cause
fie	*		facility
uu	*		user−use
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmpRcv(Ti :TI; cau : CAU)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value = #81. ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	cau		cause value #81
fie	*		facility
uu	*		user−user information
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_02(ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value #16. n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
cc_sspd	’0011’B		CC protocol discriminator
mt	’00101010’B		
cau	Cause_26		cause value #16
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_03(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received RELEASE message.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	*		
fie	*		facility
uu	*		user−user information
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_04(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value #1. n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’00101010’B		
cau	Cause_10		cause value #1
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_07(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value = #88. ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	Cause_27		cause value #81
fie	*		facility
uu	*		user−user information
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_08(Ti :TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing mandatory IEs only. n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’00101010’B		
cau	−		
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_09(Ti :TI; fie : FIE)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing facility IE. n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’1011’B		SS protocol discriminator
mt	’00101010’B		
cau	−		
fie	fie		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_10(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value = #17. ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	Cause_17		user busy #17
fie	*		facility
uu	*		user−user information
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_25(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match a received RELEASE message which may or may not contain facility IE

Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	*		
fie	facilityIErcviei(FwdChAdvRslt_01) IF_PRESENT		facility
uu	*		user−user information
ssvi	*		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_42(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To send a RELEASE COMPLETE message containing cause ’facility rejected’ and without FIE

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’00101010’B		message type
cau	Cause_28		’facility rejected’
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_47(Ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To send a RELEASE COMPLETE message without cause and without FIE

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’00101010’B		message type
cau	−		
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_49(Ti : TI; Invkid : OCTETSTRING)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To receive a RELEASE COMPLETE message containing Return Error for UnstructuredSS−Notify with the error code USSD Busy

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’0?101010’B		message type
cau	*		
fie	facilityIErcviei(NotificationSS_09(Invkid))		facility
uu	−		user−user information
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_50(Ti : TI; Invkid : OCTETSTRING)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To receive a RELEASE COMPLETE message containing Return Error for UnstructuredSS−Request with the error code USSD Busy

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
cc_sspd	’1011’B		
mt	’0?101010’B		message type
cau	*		
fie	facilityIErcviei(USSDReq_05(Invkid))		facility
uu	−		user−user information
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_52(ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RELEASE COMPLETE message containing cause value #81 and TI = ’1110’B. ms −> n.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’1110’B
cc_sspd	’0011’B		CC protocol discriminator
mt	’0?101010’B		
cau	Cause_22		
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseCmp_inv_02(ti : TI)
PDU Type : REL_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid RELEASE COMPLETE message containing unknown optional IEI

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier
cc_sspd	’0011’B		CC protocol discriminator
mt	’00101010’B		
cau	Cause_08		unknown IEI, length = 1, arbitrary contents
fie	−		facility
uu	−		user−user information
ssvi	−		SS version

Detailed Comments :

PDU Constraint Declaration

Constraint Name : ReleaseReq_inv_01(Ti : TI)
PDU Type : REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid RELEASE message containing unknown optional IE.

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00101101’B		message type
cau	Cause_09		unknown optional IEI, length =1, arbitrary contents
cau2	−		
fie	−		
uu	−		
ssvi	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RRStatus_01
PDU Type : RRST_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A RR STATUS message containing any RR cause.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00010010’B		
rrcau	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RRStatus_02
PDU Type : RRST_PDU
Derivation Path : RRStatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : RR STATUS message containing cause value #96−−invalid mandatory information

Field Name	Field Value	Field Encoding	Comments
rrcau	’01100000’B		cause value #96

Detailed Comments :

PDU Constraint Declaration

Constraint Name : RRStatus_03
PDU Type : RRST_PDU
Derivation Path : RRStatus_01.
Encoding Rule Name :
Encoding Variation :
Comments : A RR STATUS message containing cause value #97−−message type non−existent or not implemented

Field Name	Field Value	Field Encoding	Comments
rrcau	’01100001’B		cause value #97

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_01(ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing speech bearer capability. n −> ms.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		
mt	’00000101’B		message type
bcri	−		
bcap1	Bcap_Speech_MT		speech
bcap2	−		
fie	−		
pi	−		
sig	−		
cgpn	−		
cgps	−		
cdpn	−		
cdps	−		
llcri	−		
llcmp1	−		
llcmp2	−		
hlcri	−		
hlcmp1	−		
hlcmp2	−		
uu	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_02(bcap: BCAP)
PDU Type : SETUP_MO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing speech bearer capability. ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	’0011’B		
mt	’0?000101’B		message type
bcri	−		
bcap1	bcap		speech full rate only or dual rate
bcap2	−		
fie	*		
cgps	*		
cdpn	?		
cdps	*		
llcri	*		
llcmp1	*		
llcmp2	*		
hlcri	*		
hlcmp1	*		
hlcmp2	*		
uu	*		
ssvi	*		SS version ms −> n
clirsup	*		CLIR suppression ms −> n
clirinv	*		CLIR invocation ms −> n
cccap	*		call control capabilities ms−>n

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_03(ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message with mandatory IE's only. This is default for BIBO testing.

Field Name	Field Value	Field Encoding	Comments
ti	ti		'0000'B
ccpd	'0011'B		
mt	'00000101'B		message type
bcri	–		
bcap1	–		
bcap2	–		
fie	–		
pi	–		
sig	–		
cgpn	–		
cgps	–		
cdpn	–		
cdps	–		
llcri	–		
llcmp1	–		
llcmp2	–		
hlcri	–		
hlcmp1	–		
hlcmp2	–		
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_04(bcap: BCAP)
PDU Type : ESETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A Emergency call SETUP message with/without speech bearer capability. ms –> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	'0011'B		
mt	'0?001110'B		message type
bcap	bcap IF_PRESENT		full rate emergency call if not present

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_10_UDI(bcap: BCAP; llc1 : LLCMP; hlc1 : HLCMP)
PDU Type : SETUP_MO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing bearer capability supported by the mobile station, used for Unrestricted digital information transfer capability. ms −> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	’0011’B		
mt	’0?000101’B		message type
bcri	−		
bcap1	bcap		
bcap2	−		
fie	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms −> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	−		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	−		low layer compatib.2 n −> ms C; ms −> n O
hlcri	−		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	−		high layer compat. 2 n −> ms C; ms −> n O
uu	*		user−user information O OCTETSTRING [3..35]
ssvi	*		SS version ms −> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms −> n C
clirinv	*		CLIR invocation ms −> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms−>n O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_10_3100(bcap: BCAP; llc1 : LLCMP; hlc1 : HLCMP)

PDU Type : SETUP_MO_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A SETUP message containing bearer capability supported by the mobile station. used for 3.1 kHz audio information transfer capability. ms −> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	’0011’B		
mt	’0?000101’B		message type
bcri	−		
bcap1	bcap		
bcap2	−		
fie	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms −> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	−		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1 IF_PRESENT		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	−		low layer compatib.2 n −> ms C; ms −> n O
hlcri	−		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	−		high layer compat. 2 n −> ms C; ms −> n O
uu	*		user−user information O OCTETSTRING [3..35]
ssvi	*		SS version ms −> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms −> n C
clirinv	*		CLIR invocation ms −> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms−>n O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_11_3100(bcri1: RPI; bcap, bcap2nd: BCAP; llc1, llc2 : LLCMP; llcri1, hlcri1 : RPI ; hlc1, hlc2 : HLCMP)

PDU Type : SETUP_MO_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : A SETUP message containing two bearer capabilities supported by the mobile station, used for 3.1 kHz audio information transfer capability. ms −> n.

Field Name	Field Value	Field Encoding	Comments
ti	?		
ccpd	’0011’B		
mt	’0?000101’B		message type
bcri	bcri1		
bcap1	bcap		
bcap2	bcap2nd		
fie	*		
cgps	*		calling party subaddr. O OCTETSTRING [2..23]
cdpn	?		called party BCD number ms −> n M OCTETSTRING[2..23]
cdps	*		called party subaddr. O OCTETSTRING [2..23]
llcri	llcri1 IF_PRESENT		LLC repeat indicator O OCTETSTRING [1]
llcmp1	llc1 IF_PRESENT		low layer compatib.1 O OCTETSTRING [2..15]
llcmp2	llc2 IF_PRESENT		low layer compatib.2 n −> ms C; ms −> n O
hlcri	hlcri1 IF_PRESENT		HLC repeat indicator O OCTETSTRING [1]
hlcmp1	hlc1 IF_PRESENT		high layer compat.1 O OCTETSTRING [2..5]
hlcmp2	hlc2 IF_PRESENT		high layer compat. 2 n −> ms C; ms −> n O
uu	*		user−user information O OCTETSTRING [3..35]
ssvi	*		SS version ms −> n O OCTETSTRING [2..3]
clirsup	*		CLIR suppression ms −> n C
clirinv	*		CLIR invocation ms −> n O
cccap	CallCntrlCap IF_PRESENT		call control capabilities ms−>n O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_20(par: BCAP; ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing bearer capability supported by the mobile station.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		
mt	’00000101’B		message type
bcri	–		
bcap1	par		
bcap2	–		
fie	–		
pi	–		
sig	–		
cgpn	–		
cgps	–		
cdpn	–		
cdps	–		
llcri	–		
llcmp1	–		
llcmp2	–		
hlcri	–		
hlcmp1	–		
hlcmp2	–		
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_21(par1 : RPI; par2, par3 : BCAP; ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message containing two bearer capabilities supported by the mobile station.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		
mt	’00000101’B		message type
bcri	par1		
bcap1	par2		
bcap2	par3		
fie	–		
pi	–		
sig	–		
cgpn	–		
cgps	–		
cdpn	–		
cdps	–		
llcri	–		
llcmp1	–		
llcmp2	–		
hlcri	–		
hlcmp1	–		
hlcmp2	–		
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_inv_01(ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SETUP message with ti_f value = 1 as an invalid message.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’1000’B
ccpd	’0011’B		
mt	’00000101’B		message type
bcri	–		
bcap1	–		
bcap2	–		
fie	–		
pi	–		
sig	–		
cgpn	–		
cgps	–		
cdpn	–		
cdps	–		
llcri	–		
llcmp1	–		
llcmp2	–		
hlcri	–		
hlcmp1	–		
hlcmp2	–		
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : Setup_inv_02(ti : TI)
PDU Type : SETUP_MT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid SETUP message with arbitrary spare bits

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0011’B		
mt	’00000101’B		message type
bcri	–		
bcap1	–		
bcap2	–		
fie	–		
pi	–		
sig	Signal_01		Dial tone on
cgpn	Cgpn_01		containing arbitrary spare bits ’5C03009801’O
cgps	Cgps_01		containing arbitrary spare bits, ’5D03875001’O
cdpn	Cdpn_01		containing arbitrary spare bits, ’5E028001’O
cdps	Cdps_01		containing arbitrary spare bits, ’6D03875001’O
llcri	–		
llcmp1	–		
llcmp2	–		
hlcri	–		
hlcmp1	–		
hlcmp2	–		
uu	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SMSCB_01(sernum: SERIAL_NUMBER)
PDU Type : SMSCB_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To send a SMSCB message, first block

Field Name	Field Value	Field Encoding	Comments
blocktype	Blocktype_01(’0000’B, ’0’B)		First Block
serial_number	sernum		
message_id	’0000’O		
dcs	Tpdcs_05		
page_param	’00010001’B		
message_contents	OC_CodeSMSCBMessage(1, 16)		16 first octets of contents

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SMSCB_02(seqnum, lb: BITSTRING; firstoct: INTEGER; lastoct: INTEGER)
PDU Type : SMSCB_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To send a SMSCB message, second to fourth block (depending on sequence number)

Field Name	Field Value	Field Encoding	Comments
blocktype	Blocktype_01(seqnum, lb)		
serial_number	–		
message_id	–		
dcs	–		
page_param	–		
message_contents	OC_CodeSMSCBMessage(f irstoct, lastoct)		22 octets of contents

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SetupInd_01
PDU Type : SETUP_MO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : To match any received SETUP message

Field Name	Field Value	Field Encoding	Comments
ti	TI_09		
ccpd	’0011’B		
mt	’0?000101’B		
bcri	*		BC repeat indicator
bcap1	?		bearer capab.
bcap2	*		bearer capab.
fie	*		facility
cgps	*		calling party subaddr.
cdpn	?		called party BCD number
cdps	*		called party subaddr.
llcri	*		LLC repeat indicator
llcmp1	*		low layer compatib.1
llcmp2	*		low layer compatib.2
hlcri	*		HLC repeat indicator
hlcmp1	*		high layer compat.1
hlcmp2	*		high layer compat.
uu	*		user−user information
ssvi	*		SS version
clirsup	*		CLIR suppression
clirinv	*		CLIR invocation
cccap	CallCntrlCap IF_PRESENT		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StartDtmf_01(Ti : TI; character : IA5String)
PDU Type : START_DTMF_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?110101’B		message type
kpf	KeyPad_01(character)		keypad facility

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StartDtmf_02(Ti : TI)
PDU Type : START_DTMF_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?110101’B		message type
kpf	KeyPad_02		keypad facility

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StartDtmf_03
PDU Type : START_DTMF_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?110101’B		message type
kpf	KeyPad_02		keypad facility

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StartDtmfAck_01(Ti : TI; character : IA5String)
PDU Type : START_DTMF_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00110110’B		message type
kpf	KeyPad_01(character)		keypad facility

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StartDtmfRej_01(Ti : TI)
PDU Type : START_DTMF_REJ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00110111’B		message type
cau	Cause_15		resources unavailable, unspecified #47

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StopDtmf_01(Ti : TI)
PDU Type : STOP_DTMF_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?110001’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StopDtmf_02
PDU Type : STOP_DTMF_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’0?110001’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : StopDtmfAck_01(Ti : TI)
PDU Type : STOP_DTMF_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	’0011’B		CC protocol discriminator
mt	’00110010’B		message type

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SyncInfor(bcc : BCC; ncc : NCC)
PDU Type : SCHINFO_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments :

Field Name	Field Value	Field Encoding	Comments
ncc	ncc		PLMN colour code
bcc	bcc		BS colour code
t1	?		
t2	?		
t3_	?		

Detailed Comments : 1. The values of t1, t2 and t3_ shall be correctly set by the L2 simulation module when this message is sent to air on the synchronization channel. It is assumed that there is a set of timebase counters in the L2 module, these counters run continuously and keep the correct timeslot number SN and TDMA frame number FN as long as the test system is poweron , the T1, T2, T3’ (values for t1, t2 and t3_) can be derived from these counters.

PDU Constraint Declaration

Constraint Name : SysInf1(cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1)
PDU Type : SYSINFO1_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Default parameters for cell A in RR testing of GSM 900

Field Name	Field Value	Field Encoding	Comments
l2_pl	'55'O		L2 pseudo length = 21
ski	'0000'B		
rrpd	'0110'B		
mt	'00011001'B		
cchd	cchd		ARFCNs: 20, 30, 50, 70
rachcp	RachCntrlPara(maxtx, txint, re)		rach control parameters
si1roct	'2B'O		SI1 rest octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf2(bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP)
PDU Type : SYSINFO2_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : SYSTEM INFORMATION TYPE2 containing default neighbour cells description

Field Name	Field Value	Field Encoding	Comments
l2_pl	'59'O		L2 pseudo length = 22
ski	'0000'B		
rrpd	'0110'B		
mt	'00011010'B		
bcchfl	bcchfl		
nccp	nccp		NCC to be monitored
rachcp	RachCntrlPara(maxtx, txint, re)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf2ter1(length:LENGTH;fl: NCD2)
PDU Type : SYSINFO2ter_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : SYSTEM INFORMATION TYPE2ter containing neighbour cells description

Field Name	Field Value	Field Encoding	Comments
l2_pl	length		L2 pseudo length
ski	’0000’B		
rrpd	’0110’B		
mt	’00000011’B		
xbcchfl	fl		
si2terroct	’2B2B2B2B’O		rest octets

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf2bis(bcchflegsm: NCD)
PDU Type : SYSINFO2bis_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : SYSTEM INFORMATION 2bis in cell A under EGSM with the ARFCN list = {988, 990, 1003}.

Field Name	Field Value	Field Encoding	Comments
l2_pl	’55’O		L2 pseudo length
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00000010’B		message type
xbcchfl	bcchflegsm		ARFCN: 988, 990, 1003
rachcp	RachCntrlPara_r01		rach control parameters
si2bisroct	’00’O		SI2bis rest octet

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf3(ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)

PDU Type : SYSINFO3_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : CCCH combined or not with SDCCH

Field Name	Field Value	Field Encoding	Comments
l2_pl	'49'O		L2 pseudo length = 18
ski	'0000'B		
rrpd	'0110'B		
mt	'00011011'B		
ci	ci		
lai	LocAreaId(mcc, mnc, lac)		MCC= 001, MNC= 01, LAC= 0001
ccd	ccd		
co	co		DTX not allowed
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
si3roct	SI3RestOctetDef		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf3_2ter(ci : CI; mcc, mnc, lac : OCTETSTRING; ccd : CCD; co : CO; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)

PDU Type : SYSINFO3_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : CCCH combined or not with SDCCH

Field Name	Field Value	Field Encoding	Comments
l2_pl	'49'O		L2 pseudo length = 18
ski	'0000'B		
rrpd	'0110'B		
mt	'00011011'B		
ci	ci		
lai	LocAreaId(mcc, mnc, lac)		MCC= 001, MNC= 01, LAC= 0001
ccd	ccd		
co	co		DTX not allowed
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
si3roct	SI3RestOctet2ter		specifies 2ter sysinfo messages to sent

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf3_inv_01(mcc, mnc, lac : OCTETSTRING)
PDU Type : SYSINFO3_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An invalid SYSTEM INFORMATION TYPE 3 message containing rest octets which are not all ’2B’O

Field Name	Field Value	Field Encoding	Comments
l2_pl	’49’O		L2 pseudo length = 18
ski	’0000’B		
rrpd	’0110’B		
mt	’00011011’B		
ci	C_ci_cellA		
lai	LocAreaId(mcc, mnc, lac)		new location area
ccd	CntrlChDscrp_inv		arbitrary spare bit
co	CellOpt_04		arbitrary spare bit
csp	CellSelPara_01		
rachcp	RachCntrlPara_01		
si3roct	SI3RestOctet_inv		not all rest octets are ’2B’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf4(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)
PDU Type : SYSINFO4_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SYSTEM INFORMATION TYPE 4 message containing default values

Field Name	Field Value	Field Encoding	Comments
l2_pl	’31’O		L2 pseudo length = 12
ski	’0000’B		
rrpd	’0110’B		
mt	’00011100’B		
lai	LocAreaId(mcc, mnc, lac)		
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	–		
cbchma	–		
si4roct	SI4RestOctetDef		PI=0, C2 parameters not present

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf4_CBMS(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1; cbchd : CHD)

PDU Type : SYSINFO4_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : To send a SYSTEM INFORMATION TYPE 4 message for SMSCB with the values or GSM 11.10, 34.3

Field Name	Field Value	Field Encoding	Comments
l2_pl	'41'O		L2 pseudo length = 18
ski	'0000'B		
rrpd	'0110'B		
mt	'00011100'B		
lai	LocAreaId(mcc, mnc, lac)		MCC=001'H, MNC=01'H, LAC=0001'H
csp	CellSelPara(crh, mtmc, neci)		
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	cbchd		
cbchma	–		
si4roct	SI4RestOctet_CBMS		PI=0, C2 parameters not present

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf4_inv_01(mcc, mnc, lac : OCTETSTRING)

PDU Type : SYSINFO4_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : An invalid SYSTEM INFORMATION message containing rest octets which are not all '2B'O

Field Name	Field Value	Field Encoding	Comments
l2_pl	'31'O		L2 pseudo length = 12
ski	'0000'B		
rrpd	'0110'B		
mt	'00011100'B		
lai	LocAreaId(mcc, mnc, lac)		new location area
csp	CellSelPara_01		
rachcp	RachCntrlPara_01		
cbchd	–		
cbchma	–		
si4roct	SI4RestOctet_inv		not all rest octets are '2B'O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf5(bcchfl: NCD)
PDU Type : SYSINFO5_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : SYSTEM INFORMATION TYPE 5 containing default neighbour cells description for GSM900

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
rrpd	’0110’B		
mt	’00011101’B		
bcchfl	bcchfl		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf5bis(bcchfl: NCD)
PDU Type : SYSINFO5bis_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : SYSTEM INFORMATION TYPE 5bis containing partial neighbour cells description with 1 frequency for DCS1800.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00000101’B		message type
xbcchfl	bcchfl		ARFCN 500

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SysInf6(ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; nccp:NCCP)
PDU Type : SYSINFO6_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : A SYSTEM INFORMATION TYPE 6 message containing default parameters for RR testing.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00011110’B		message type
ci	ci		cell identity
lai	LocAreaId(mcc, mnc, lac)		
co	co		DTX not allowed, RadioTimeout = 8
nccp	nccp		ncc permitted

Detailed Comments :

PDU Constraint Declaration

Constraint Name : TmsiReallocCmd(par:MI; mcc, mnc, lac: OCTETSTRING)
PDU Type : TMSIRE_CMD_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : TMSI REALLOCATION COMMAND message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’00011010’B		
lai	LocAreaId(mcc, mnc, lac)		
mi	par		new TMSI

Detailed Comments :

PDU Constraint Declaration

Constraint Name : TmsiReallocComp
PDU Type : TMSIRE_COM_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : TMSI REALLOCATION COMPLETE message.

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		
mmpd	’0101’B		
mt	’0?011011’B		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : UndefCC_02(Ti : TI)
PDU Type : CONN_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : This is an undefined CC message

Field Name	Field Value	Field Encoding	Comments
ti	Ti		’0000’B
ccpd	’0011’B		CC protocol discriminator
mt	’00111111’B		an undefined message type
fie	–		facility
pi	–		
cnn	–		connected number
cns	–		
uu	–		
ssvi	–		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : UndefMM_01
PDU Type : ID_RES_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : This is an undefined MM message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
mmpd	’0101’B		MM protocol discriminator
mt	’00100101’B		undefined value
mi	Mi_05		’02E090’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : UndefRR_01
PDU Type : PART_REL_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : An undefined RR message

Field Name	Field Value	Field Encoding	Comments
ski	’0000’B		skip identifier
rrpd	’0110’B		RR protocol discriminator
mt	’00100101’B		undefined value
chd	’02E090’O		’02E090’O

Detailed Comments :

PDU Constraint Declaration

Constraint Name : UnknownMsg_01(ti : TI)
PDU Type : CCST_ENQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CC STATUS ENQUIRY alike unknown message

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0000’B
ccpd	’0000’B		incorrect PD
mt	’00110100’B		unknown message

Detailed Comments :

PDU Constraint Declaration

Constraint Name : UnknownMsg_02(ti : TI)
PDU Type : CCST_ENQ_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CC STATUS ENQUIRY alike unknown message with arbitrary transaction ID.

Field Name	Field Value	Field Encoding	Comments
ti	ti		’0011’B arbitrary value
ccpd	’0000’B		incorrect PD
mt	’00110100’B		unknown message

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataAckPdu_01(ti : TI)
PDU Type : CPDATA_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ACKNOWLEDGE ms −> n

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000100’B		message type M

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataAckPdu_02(ti :TI)
PDU Type : CPDATA_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ACKNOWLEDGE n −> ms

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000100’B		message type M

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataAckPdu_03(ti : TI)
PDU Type : CPDATA_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ACKNOWLEDGE n −> ms, MO−SMS

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000100’B		message type M

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpErrPdu_01(ti : TI)
PDU Type : CPERR_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP ERROR n −> ms
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00010000’B		message type M
cp_cause	’11’O		Network Failure

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_01(ti : TI; cpdat : CPDATA)
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA n −> ms, RP DATA, TP−DCS set to 0
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	cpdat		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_02(ti : TI; cpdat : CPDATA)
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ms −> n, RP Acknowledge
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	cpdat		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_03(cpdat : CPDATA)
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ms −> n, RP data, TP−DCS set to 0, no status report requested
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	cpdat		RP Data

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_04
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA n −> ms, RP Acknowledge
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	?		RP Acknowledgement

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_any
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ms −> n
GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	?		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_16(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; ti : TI; rpmr: MR; timezone : TZONES)

PDU Type : CP_DATA_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : CP DATA n −> ms, RP DATA, TP−DCS set to 0 GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	CpData_15(tpoa1, rpoa_mt, smtype, text, rpmr, timezone)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_17(tpoa1: BCDN; rpoa_mt: BCDN; text: IA5String; ti : TI; rpmr: MR; timezone : TZONES)

PDU Type : CP_DATA_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : CP DATA n −> ms, RP DATA, TP−DCS set to 0 GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	ti		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	CpData_16(tpoa1, rpoa_mt, text, rpmr, timezone)		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CpDataPdu_18(tpda, rpda : BCDN; tpud : TPUD)
PDU Type : CP_DATA_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : CP DATA ms −> n, RP data, TP−DCS set to 0, no status report requested GSM 04.11

Field Name	Field Value	Field Encoding	Comments
ti	TI_09		transaction identifier M
smspd	’1001’B		SMS protocol discriminator M
mt	’00000001’B		message type M
CPdata	CpData_17(tpda, rpda,tpud)		RP Data

Detailed Comments :

IV

Dynamic Part

Test Case Dynamic Behaviour

Test Case Name : TC_11_1_1

Group : General/

Purpose : 1. To verify that the MS, for the case of the Multinumbering scheme or ISDN, accepts a SETUP message, where the Information Elements for Bearer Capability are compatible with the Bearer Services / Teleservices declared as supported by the MS, by sending a CALL CONFIRMED message.

This is verified for all Mobile Terminated Bearer Services / Teleservices declared as supported by the MS.

2. To verify that the MS in the "Null" state, U0, when receiving a SETUP message containing incompatible Information Elements for Bearer Capability will respond with a RELEASE COMPLETE message.

This is verified for all Mobile Terminated Bearer Services / Teleservices not declared as supported by the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_SpecialCase := C_Yes)			
4		+testTS11			
5		+testBs2x			
6		+testBS3x			
7		+testBS61			
8		+testBS81			
9		+testTS62			
10		[NOT TSPC_Serv_TS62 OR TSPC_Serv_TS61]			
11		+testTS61			
12		[TSPC_Serv_TS62 AND NOT TSPC_Serv_TS61]			
		testTS11			
13		+test(C_Telephony, TSPC_Serv_TS11)			
		testTS61			
14		+test(C_AltSpchFax, TSPC_Serv_TS61)			
		testTS62			
15		+test(C_AutoFax, TSPC_Serv_TS62)			
		testBs2x			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+test(C_Async300, TSPC_Serv_BS21)			
17		+test(C_Async1200, TSPC_Serv_BS22)			
18		+test(C_Async2400, TSPC_Serv_BS24)			
19		+test(C_Async4800, TSPC_Serv_BS25)			
20		+test(C_Async9600, TSPC_Serv_BS26)			
		testBS3x			
21		+test(C_Sync1200, TSPC_Serv_BS31)			
22		+test(C_Sync2400, TSPC_Serv_BS32)			
23		+test(C_Sync4800, TSPC_Serv_BS33)			
24		+test(C_Sync9600, TSPC_Serv_BS34)			
		testBS61			
25		+test(C_AltSpchData, TSPC_Serv_BS61)			
		testBS81			
26		+test(C_SpchData, TSPC_Serv_BS81)			
		test(srv : SERVICES; supported : BOOLEAN)			
27		+BasicServiceMT(srv, C_Full)			
28		+SetupAndCheck(supported)			
29		[TCV_2ndtest AND supported]			
30		(TCV_Setup_mt := TCV_Setup_mt1)			
31		+local_IFsetup(srv)			
32		+SetupAndCheck(TRUE)			
33		[NOT TCV_2ndtest OR NOT supported]			
		SetupAndCheck(supported : BOOLEAN)			
34		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
35		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
36		+Ciphering_on(TCV_ch)			
37		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
38		+check(supported)			
39		+PostMainLinkRel(TCV_ch)			
40		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			3.
		check(supported : BOOLEAN)			
41		[supported]			1.
42	L_0001	L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	
43		[NOT supported]			2.
44	L_0002	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_07(TI_01))	(P)	
		local_IFsetup(srv : SERVICES)			
45		[(srv = C_AltSpchFax) OR (srv = C_AutoFax)]			
46		(TCV_Null := OO_IFsetup_TS6x_MT(srv, TCV_ur2))			
47		[(srv = C_Async300) OR (srv = C_Async1200) OR (srv = C_Async2400) OR (srv = C_Async4800) OR (srv = C_Async9600)]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
48		(TCV_Null := OO_IFsetup_BS2x_MT(srv, TCV_itc2))			
49		[(srv = C_Sync1200) OR (srv = C_Sync2400) OR (srv = C_Sync4800) OR (srv = C_Sync9600)]			
50		(TCV_Null := OO_IFsetup_BS3x_MT(srv, TCV_itc2, TCV_sacp2))			
51		[(srv = C_AltSpchData) OR (srv = C_SpchData)]			
52		(TCV_Null := OO_IFsetup_BS61orBS81_MT(srv, TCV_ur2, TCV_sa2))			
Detailed Comments : 1. To test the supported basic service. 2. To test the non−supported basic service. 3. To set the channel back to non−ciphering mode for next test execution.					

Test Case Dynamic Behaviour

Test Case Name : TC_11_1_2

Group : General/

Purpose : 1. To verify that the MS generates a SETUP message which includes a single or multiple Bearer Capability and a single LLC, according to the actual configuration on the MS.

This is verified for all Mobile Originated Bearer Services / Teleservices described in GSM 07.01 and declared as supported by the MS.

2. To verify that the MS includes a correctly encoded Repeat Indicator if it includes multiple Bearer Capabilities in the SETUP message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(6000)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+testTS11			
4		+testTS12			
5		+testTS61			
6		+testTS62			
7		+testBS21			
8		+testBS22			
9		+testBS23			
10		+testBS24			
11		+testBS25			
12		+testBS26			
13		+continue			
		continue			
14		+testBS31			
15		+testBS32			
16		+testBS33			
17		+testBS34			
18		+testBS41			
19		+testBS42			
20		+testBS43			
21		+testBS44			
22		+testBS45			
23		+testBS46			
24		+testBS51			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		+testBS52			
26		+testBS53			
27		+testBS61			
28		+testBS81			
		testTS11			
29		[TSPC_Serv_TS11]			
30		+check(C_Telephony)			TS11
31		[NOT TSPC_Serv_TS11]			
		testTS12			
32		[TSPC_Serv_TS12]			
33		+check(C_EmgCall)			TS12
34		[NOT TSPC_Serv_TS12]			
		testTS61			
35		[TSPC_Serv_TS61]			
36		+check(C_AltSpchFax)			TS61
37		[NOT TSPC_Serv_TS61]			
		testTS62			
38		[TSPC_Serv_TS62]			
39		+check(C_AutoFax)			TS62
40		[NOT TSPC_Serv_TS62]			
		testBS21			
41		[TSPC_Serv_BS21]			
42		+check(C_Async300)			BS21
43		[NOT TSPC_Serv_BS21]			
		testBS22			
44		[TSPC_Serv_BS22]			
45		+check(C_Async1200)			BS22
46		[NOT TSPC_Serv_BS22]			
		testBS23			
47		[TSPC_Serv_BS23]			
48		+check(C_Async120075)			BS23
49		[NOT TSPC_Serv_BS23]			
		testBS24			
50		[TSPC_Serv_BS24]			
51		+check(C_Async2400)			BS24
52		[NOT TSPC_Serv_BS24]			
		testBS25			
53		[TSPC_Serv_BS25]			
54		+check(C_Async4800)			BS25
55		[NOT TSPC_Serv_BS25]			
		testBS26			
56		[TSPC_Serv_BS26]			
57		+check(C_Async9600)			BS26
58		[NOT TSPC_Serv_BS26]			
		testBS31			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
59		[TSPC_Serv_BS31]			
60		+check(C_Sync1200)			BS31
61		[NOT TSPC_Serv_BS31]			
		testBS32			
62		[TSPC_Serv_BS32]			
63		+check(C_Sync2400)			BS32
64		[NOT TSPC_Serv_BS32]			
		testBS33			
65		[TSPC_Serv_BS33]			
66		+check(C_Sync4800)			BS33
67		[NOT TSPC_Serv_BS33]			
		testBS34			
68		[TSPC_Serv_BS34]			
69		+check(C_Sync9600)			BS34
70		[NOT TSPC_Serv_BS34]			
		testBS41			
71		[TSPC_Serv_BS41]			
72		+check(C_PAD300)			BS41
73		[NOT TSPC_Serv_BS41]			
		testBS42			
74		[TSPC_Serv_BS42]			
75		+check(C_PAD1200)			BS42
76		[NOT TSPC_Serv_BS42]			
		testBS43			
77		[TSPC_Serv_BS43]			
78		+check(C_PAD120075)			BS43
79		[NOT TSPC_Serv_BS43]			
		testBS44			
80		[TSPC_Serv_BS44]			
81		+check(C_PAD2400)			BS44
82		[NOT TSPC_Serv_BS44]			
		testBS45			
83		[TSPC_Serv_BS45]			
84		+check(C_PAD4800)			BS45
85		[NOT TSPC_Serv_BS45]			
		testBS46			
86		[TSPC_Serv_BS46]			
87		+check(C_PAD9600)			BS46
88		[NOT TSPC_Serv_BS46]			
		testBS51			
89		[TSPC_Serv_BS51]			
90		+check(C_Packet2400)			BS51
91		[NOT TSPC_Serv_BS51]			
		testBS52			
92		[TSPC_Serv_BS52]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
93		+check(C_Packet4800)			BS52
94		[NOT TSPC_Serv_BS52]			
		testBS53			
95		[TSPC_Serv_BS53]			
96		+check(C_Packet9600)			BS53
97		[NOT TSPC_Serv_BS53]			
		testBS61			
98		[TSPC_Serv_BS61]			
99		+check(C_AltSpchData)			BS61
100		[NOT TSPC_Serv_BS61]			
		testBS81			
101		[TSPC_Serv_BS81]			
102		+check(C_SpchData)			BS81
103		[NOT TSPC_Serv_BS81]			
		check(srv : SERVICES)			
104		+BasicServiceMO(srv, C_Full)			
105		+InitCall(srv)			
106		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
107		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
108		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
109		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
110		ACTIVATE(OtherEventsFail)			Restore Normal default
111		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
112		+Ciphering_on(TCV_ch)			
113		+ltree_SetupChk(srv)			
114		+PostMainLinkRel(TCV_ch)			
115		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_SetupChk(srv1 : SERVICES)			
116		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
117	L_0003	[(srv1 = C_Telephony) OR (srv1 = C_EmgCall)]		(P)	no further check for TS11, TS12

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
118	L_0004	[(srv1 = C_Packet2400) OR (srv1 = C_Packet4800) OR (srv1 = C_Packet9600)]		(P)	no further check for BS5x
119		[(srv1 = C_Async300) OR (srv1 = C_Async1200) OR (srv1 = C_Async120075) OR (srv1 = C_Async2400) OR (srv1 = C_Async4800) OR (srv1 = C_Async9600)]			
120		+local_BS2x_more_chk(srv1)			further check for BS2x
121		[(srv1 = C_Sync1200) OR (srv1 = C_Sync2400) OR (srv1 = C_Sync4800) OR (srv1 = C_Sync9600)]			
122		+local_BS3x_more_chk(srv1)			further check for BS3x
123		[(srv1 = C_PAD300) OR (srv1 = C_PAD1200) OR (srv1 = C_PAD120075) OR (srv1 = C_PAD2400) OR (srv1 = C_PAD4800) OR (srv1 = C_PAD9600)]			
124		+local_BS4x_more_chk(srv1)			further check for BS4x
125		[srv1 = C_AltSpchData]			
126		+local_BS61orBS81_more_chk(srv1, TSPX_BS_61_A_ur1_T_NT)			further check for BS61
127		[srv1 = C_SpchData]			
128		+local_BS61orBS81_more_chk(srv1, TSPX_BS_81_A_ur1_T_NT)			further check for BS81
129	L_0005	[(srv1 = C_AltSpchFax) OR (srv1 = C_AutoFax)]		(P)	no further check for TS61, TS62
		local_BS4x_more_chk(srv2 : SERVICES)			
130		[srv2 = C_PAD300]			
131		+local_ce_strc_ir_chk(srv2, TSPX_BS_41_ce, TSPX_BS_41_T_NT)			
132		[srv2 = C_PAD1200]			
133		+local_ce_strc_ir_chk(srv2, TSPX_BS_42_ce, TSPX_BS_42_T_NT)			
134		[srv2 = C_PAD120075]			
135		+local_ce_strc_ir_chk(srv2, TSPX_BS_43_ce, TSPX_BS_43_T_NT)			
136		[srv2 = C_PAD2400]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
137		+local_ce_strc_ir_chk(srv2, TSPX_BS_44_ce, TSPX_BS_44_T_NT)			
138		[srv2 = C_PAD4800]			
139		+local_ce_strc_ir_chk(srv2, TSPX_BS_45_ce, TSPX_BS_45_T_NT)			
140		[srv2 = C_PAD9600]			
141		+local_ce_strc_ir_chk(srv2, TSPX_BS_46_ce, TSPX_BS_46_T_NT)			
		local_BS2x_more_chk(srv3 : SERVICES)			
142		[srv3 = C_Async300]			
143		+local_ce_strc_ir_chk(srv3, TSPX_BS_21_ce, TSPX_BS_21_T_NT)			
144		[srv3 = C_Async1200]			
145		+local_ce_strc_ir_chk(srv3, TSPX_BS_22_ce, TSPX_BS_22_T_NT)			
146		[srv3 = C_Async120075]			
147		+local_ce_strc_ir_chk(srv3, TSPX_BS_23_ce, TSPX_BS_23_T_NT)			
148		[srv3 = C_Async2400]			
149		+local_ce_strc_ir_chk(srv3, TSPX_BS_24_ce, TSPX_BS_24_T_NT)			
150		[srv3 = C_Async4800]			
151		+local_ce_strc_ir_chk(srv3, TSPX_BS_25_ce, TSPX_BS_25_T_NT)			
152		[srv3 = C_Async9600]			
153		+local_ce_strc_ir_chk(srv3, TSPX_BS_26_ce, TSPX_BS_26_T_NT)			
		local_BS3x_more_chk(srv4 : SERVICES)			
154	L_0006	[srv4 = C_Sync1200]		(P)	no further check
155		[srv4 = C_Sync2400]			
156	L_0007	[(NOT TSPX_BS_32_X32_T_NT) OR (TSPX_BS_32_itc1 <> C_3100Hz) OR (TSPX_BS_32_sacp1 <> C_X32) OR (TSPX_BS_32_X32_ce <> C_transparent)]		(P)	no further check
157		[TSPX_BS_32_X32_T_NT AND (TSPX_BS_32_itc1 = C_3100Hz) AND (TSPX_BS_32_sacp1 = C_X32) AND (TSPX_BS_32_X32_ce = C_transparent)]			
158		+local_ce_strc_ir_chk(srv4, TSPX_BS_32_X32_ce, TSPX_BS_32_X32_T_NT)			
159		[srv4 = C_Sync4800]			
160	L_0008	[(NOT TSPX_BS_33_X32_T_NT) OR (TSPX_BS_33_itc1 <> C_3100Hz) OR (TSPX_BS_33_sacp1 <> C_X32) OR (TSPX_BS_33_X32_ce <> C_transparent)]		(P)	no further check
161		[TSPX_BS_33_X32_T_NT AND (TSPX_BS_33_itc1 = C_3100Hz) AND (TSPX_BS_33_sacp1 = C_X32) AND (TSPX_BS_33_X32_ce = C_transparent)]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
162		+local_ce_strc_ir_chk(srv4, TSPX_BS_33_X32_ce, TSPX_BS_33_X32_T_NT)			
163		[srv4 = C_Sync9600]			
164	L_0009	[(NOT TSPX_BS_34_X32_T_NT) OR (TSPX_BS_34_itc1 <> C_3100Hz) OR (TSPX_BS_34_sacp1 <> C_X32) OR (TSPX_BS_34_X32_ce <> C_transparent)]		(P)	no further check
165		[TSPX_BS_34_X32_T_NT AND (TSPX_BS_34_itc1 = C_3100Hz) AND (TSPX_BS_34_sacp1 = C_X32) AND (TSPX_BS_34_X32_ce = C_transparent)]			
166		+local_ce_strc_ir_chk(srv4, TSPX_BS_34_X32_ce, TSPX_BS_34_X32_T_NT)			
		local_ce_strc_ir_chk(srv5:SERVICES; ce:B_2; both:BOOLEAN)			
167	L_0010	[(NOT both) OR (both AND(TCV_ce = C_notransparent))]		(P)	no further check needed
168		[both AND (TCV_ce = C_transparent)]			
169		[(srv5=C_AltSpchFax) OR (srv5=C_AltSpchData) OR (srv5=C_SpchData)]			
170		(TCV_ce := TCV_Setup_mo1.bcap2.ce, TCV_ir := TCV_Setup_mo1.bcap2.ir, TCV_strc := TCV_Setup_mo1.bcap2.strc)			
171		+local_temp_tree			
172		[C_Yes]			
173		(TCV_ce := TCV_Setup_mo1.bcap1.ce, TCV_ir := TCV_Setup_mo1.bcap1.ir, TCV_strc := TCV_Setup_mo1.bcap1.strc)			
174		+local_temp_tree			
		local_temp_tree			
175	L_0011	[TCV_ce = C_notransparent]		(F)	
176		[TCV_ce = C_transparent]			
177	L_0012	[TCV_strc <> C_Unstructured]		(F)	
178	L_0013	[TCV_strc = C_Unstructured]		(P)	
179		[(TCV_ce <> C_transparent) AND (TCV_ce <> C_notransparent)]			
180	L_0014	[(TCV_ir = C_ir_16kbs) AND (TCV_strc = C_SDUintegrity)]		(P)	
181	L_0015	[(TCV_ir <> C_ir_16kbs) OR (TCV_strc <> C_SDUintegrity)]		(F)	
		local_BS61orBS81_more_chk(srv6: SERVICES; both1 : BOOLEAN)			
182	L_0016	[TCV_sa <> C_Asynchronous]		(P)	no further check needed
183		[TCV_sa =C_Asynchronous]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
184		+local_ce_strc_ir_chk(srv6, TCV_ce, both1)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_11_2

Group : General/

Purpose : 1. To verify that the MS, for the case of the Single Numbering Scheme, accepts a SETUP message, where the Information Elements for Brearer Capability and Lower and Higher Layer Compatibility are not present by sending a CALL CONFIRMED message which includes the single or multiple Bearer Capabilities, according to the actual configuration on the MS.

This is verified for one Mobile Terminated Bearer Services / Teleservices described in GSM 07.01 and declared as supported by the MS.

2. To verify that the MS includes a correctly encoded Repeat Indicator if it includes multiple Bearer Capabilities in the CALL CONFIRMED message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+CallCfmGen(TSPX_MTBscSvcD, TSPX_MTChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
5		L!DL_DatRqSetup	SetupSnd(TCV_ch, Setup_03(TI_02))		3.
6	L_0017	L?DL_DatInCallCo	CallCfm(TCV_CallCfm)	(P)	4.
7		+PostMainLinkRel(TCV_ch)			
8		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			

Detailed Comments :
1. To generate a CALL COMKFIRMED based on the required basic service and IXIT parameters, and ask operator to configurate the MS for the required basic service.
2. To setup physical channel for BCCH,CCCH and SDCCH4 channels.
3. To send a SETUP_PDU without bearer capabilities and lower and higher layer compatibilities.
4. To check whether the received CALL COMFIRM PDU is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_11_3

Group : General/

Purpose : 1. To verify that an MS claiming to not support AOCC and in the outgoing call / U4 call delivered state, on receipt of a CONNECT message containing AOCC information acknowledges the CONNECT message but ignores and does not acknowledge the AOCC information sent within the CONNECT.

2. To verify that an MS claiming to not support AOCC and in the outgoing call / U4 call delivered state, on receipt of a FACILITY message containing AOCC information ignores and does not acknowledge the AOCC information contained within the FACILITY.

3. To verify that an MS claiming to not support AOCC and in the incoming call / U9 call confirmed state, on receipt of a FACILITY message containing AOCC information ignores and does not acknowledge the AOCC information contained within the FACILITY.

4. To verify that an MS claiming to not support AOCC and in the U10 call active state, on receipt of a FACILITY message containing AOCC information ignores and does not acknowledge the AOCC information contained within the FACILITY.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+test1			2.
6		+test2			3.
7		+test3			4.
8		+test4			5.
		test1			
9		+ltree_estMOcall_U4			
10		L!DL_DatRqConn START T_dly(15000)	ConnSnd(TCV_chTch, Connect_05(TCV_TI, facilityIEtsndiei(FwdChAdvSS_01)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
12	L_0018	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_05(TCV_TI0))	(F)	
13		+release(TCV_chTch)			
14	L_0019	?TIMEOUT T_dly		(P)	
15		+release(TCV_chTch)			
16	L_0020	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_05(TCV_TI0))	(F)	
17		+release(TCV_chTch)			
18	L_0021	?TIMEOUT T_dly		(P)	
19		+release(TCV_chTch)			
		test2			
20		+ltree_estMOcall_U4			
21		L!DL_DatRqFac START T_dly(15000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facilityIEtsnd(FwdChAdvSS_01)))		
22	L_0022	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_05(TCV_TI0))	(F)	
23		+release(TCV_chTch)			
24	L_0023	?TIMEOUT T_dly		(P)	
25		+release(TCV_chTch)			
		test3			
26		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
27		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
28		L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)	SetupSnd(TCV_ch, TCV_Setup_mt)		
29		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		
30		L!DL_DatRqFac START T_dly(15000)	FacilitySnd(TCV_ch, FacilityPdu_25(TI_02, facilityIEtsnd(FwdChAdvSS_01)))		
31	L_0024	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_05(TI_01))	(F)	
32		+release(TCV_ch)			
33	L_0025	?TIMEOUT T_dly		(P)	
34		+release(TCV_ch)			
		test4			
35		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
36		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37		L!DL_DatRqFac START T_dly(15000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facilityIEtsnd(FwdChAdvSS_01)))		
38	L_0026	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_05(TCV_TI0))	(F)	
39		+PostMainLinkRel(TCV_chTch)			
40	L_0027	?TIMEOUT T_dly		(P)	
41		+PostMainLinkRel(TCV_chTch)			
		release(ch: LOGICCH)			
42		+PostMainLinkRel(ch)			
43		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_estMOcall_U4			
44		+InitCall(TCV_Service)			
45		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
46		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
47		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
48		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
49		ACTIVATE(OtherEventsFail)			Restore Normal default
50		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
51		+Ciphering_on(TCV_ch)			
52		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
53		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
54		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
55		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
56		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

Detailed Comments : 1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.
2. To verify non−supported AOCC information carried by CONNECT message in the case of MO call state U4.

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Test Case Dynamic Behaviour
Detailed Comments : ... 3. To verify non−supported AOCC information carried by FACILITY message in the case of MO call state U4. 4. To verify non−supported AOCC information carried by FACILITY message in the case of MT call state U9. 5. To verify non−supported AOCC information carried by FACILITY message in the case of MO call state U10.

Test Case Dynamic Behaviour

Test Case Name : TC_11_4

Group : General/

Purpose : To verify that an MS claiming to not support the Call Hold supplementary service and in the U10 call active state, reacts in the following manner when the appropriate call hold MMI command is entered:
- MS fails to put the first call on hold
- MS fails to place the second call.
- Optionally provides some indication to the user of an error.

Configuration :

Default : OtherEvents_01

Comments : other irrelevant mesages wil be discarded by the default tree.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		+InitCall(TCV_Service)			3.
7		START T_dly(3000)			
8		ACTIVATE (DTMFsig, OtherEvents_01)			Accept DTMF signalling
9	L_0028	L?DL_DatInHold CANCEL T_dly	HoldRcv(Holdpdu_01(TCV_TI0))	(F)	4.
10		+PostMainLinkRel(TCV_chTch)			
11	L_0029	?TIMEOUT T_dly		(P)	5.
12		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.
2. To bring the MS into U10 state of mobile originating call.
3. To enter hold MMI command.
4. The MS sends out HOLD mesage, fail.
5. Within 3 seconds there is no HOLD message, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_11_5

Group : General/

Purpose : To verify that an MS claiming to not support the MultiParty supplementary service and in the U10 call active state with one call and another call on hold, reacts in the following manner when the appropriate MultiParty MMI command is entered:
- Fails to combine the three parties in a MultiParty call.
- Optionally provides some indication to the user of an error.

Configuration :

Default : OtherEvents_01

Comments : other irrelevant mesages wil be discarded by the default tree.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		+InitCall(TCV_Service)			7.
7		ACTIVATE (DTMFsig, OtherEvents_01)			Accept DTMF signalling
8		L?DL_DatInHold	HoldRcv(Holdpdu_01(TCV_TI0))		
9		ACTIVATE (OtherEvents_01)			Restore Normal Default
10		L!DL_DatRqHoldAck	HoldAckSnd(TCV_chTch, HoldAckpdu_01(TCV_TI))		
11		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_01)		
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+SetupRcvMo2(SetupInd_01)			
14		+continue			
		continue			
15		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
16		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI2))		
17		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI2))		
18		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI1))		3.
19		(TCV_Null := OO_MptyCall())			4.
20		ACTIVATE (DTMFsig, OtherEvents_01)			Accept DTMF signalling
21		START T_dly(3000)			
22	L_0030	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_26(TCV_TI0, facilityIErcv(BldMptySS_01)))	(F)	5.
23		+PostMainLinkRel(TCV_chTch)			
24	L_0031	L?DL_DatInFac CANCEL T_dly	FacilityRcv(FacilityPdu_26(TCV_TI1, facilityIErcv(BldMptySS_01)))	(F)	5.
25		+PostMainLinkRel(TCV_chTch)			
26	L_0032	?TIMEOUT T_dly		(P)	6.
27		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.
2. To bring the MS into U10 state of mobile originating call.
3. The first call is on hold and second call is in active state.
4. To enter MultiParty MMI command.
5. The MS sends out FACILITY message, fail.
6. Within 3 seconds there is no FACILITY message, pass.
7. To initiate the second call.

Test Case Dynamic Behaviour

Test Case Name : TC_11_6

Group : General/

Purpose : 1. To verify that an MS claiming to not support FDN and that has a SIM with FDN allocated and activated inserted in it refuses an attempt to make an outgoing call made by the user.

2. To verify that an MS claiming to not support FDN and that has a SIM with FDN allocated and activated inserted in it does not answer to paging.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		(TCV_Null := OO_SIM3Ins())			2.
5		+InitCall(TCV_Service)			3.
6		START T_dly(3000)			
7	L_0033	L?DL_RacInChRq CANCEL T_dly	ChReq(ChRequest_02)	(F)	
8		START T_dly(C_T_Wait)			4.
9		?TIMEOUT T_dly			
10		+continue			
11	L_0034	?TIMEOUT T_dly		(P)	
12		+continue			
		continue			
13		L!DL_UdatRqPg1Rq (DL_UdatRqPg1Rq.pgg := TCV_Pgg)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		5.
14		START T_dly(3000)			
15	L_0035	L?DL_RacInChRq CANCEL T_dly	ChReq(ChRequest_02)	(F)	
16	L_0036	?TIMEOUT T_dly		(P)	6.

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To insert the SIM with FDN allocated and activated, the power on the MS.
3. To attemp an outgoing CM connection.
4. To wait the MS back to idle.
5. To page the MS.
6. No CHANNEL REQUEST, pass

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_1_1

Group : InitialTest/

Purpose :
1) To verify that the MS answers to a PAGING message by sending a CHANNEL REQUEST message within 0.7 seconds after reception of the PAGING message.

2) To verify that the MS does not always use the same delay between reception of paging message and sending of the CHANNEL REQUEST message. If an MS uses a fixed delay, there is a high probability that different MSs of the same product series use the same delay. There would then be a high risk of collision.

Configuration :

Default : OtherEventsFail_01

Comments : The default tree OtherEventsFail_01 throws away any possible retransmitted channel request messages.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass , C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, TSPX_CcchConf1, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+localtree			
		localtree			
4		(TCV_Cnt :=0)			
5	body	REPEAT localtree1 UNTIL [TCV_Cnt = 200]			
6		(TCV_Res := OC_SaveAndProc1(TCV_Fk, C_PROC, TCV_Cnt, TCV_Upd))			1.
7	L_0037	[NOT TCV_Res]		(F)	2.
8	L_0038	[TCV_Res]		(P)	
		localtree1			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
10		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_17)		
11		(TCV_Fn1 := OM_ReturnFn(TCV_PgCh), TCV_Fk := OC_RachSlots(TCV_Fn1, TCV_Fn, TCV_Upd, 0))			4.
12	L_0039	[TCV_Fk < −9990]		(F)	7.
13		(TCV_Cnt := 200)			
14		CANCEL T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		[TCV_Fk >= 0]			
16		(TCV_Res := OC_SaveAndProc1(TCV_Fk, C_SAVE, TCV_Cnt, TCV_Upd))			5.
17	L_0040	[NOT TCV_Res]		(F)	6.
18		(TCV_Cnt := 200)			
19		CANCEL T_dly			
20	L_0041	[TCV_Res]		(P)	
21		L!DL_UdatRqImmassRej (TCV_Cnt := TCV_Cnt+1)	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
22		?TIMEOUT T_dly			

Detailed Comments :
1. To analyse the delay of channel request msg.
2. The channel request messages are not spread equally.
3. To get the frame number on which paging request was sent.
4. To calculate the rach slots between paging request and channel request.
5. To record the delay of channel request msg.
6. MS is too slow to answer a paging msg.
7. Rach TDMA frame mapping is not correct.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_1_2

Group : InitialTest/

Purpose : 1) To verify that the MS spreads retransmission of a CHANNEL REQUEST message with equal probability on Tx−Integer time slots and correctly applies the fixed delay when the following conditions apply:
- the CCCH is combined or not combined with SDCCHs;
- the maximum number of retransmissions is equal to one of the following values: 1, 2, 4, 7, according to the value of TSPX_MaxRetrans.
- Tx−Integer is put to any of the allowed values among those which are greater or equal to 6, according to the value of TSPX_Txint.

2) To verify that the MS retransmits exactly Max_Retrans times a CHANNEL REQUEST message if the network never responds to the CHANNEL REQUEST message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_K := ((230 + TSPX_MaxRetrans−1) / TSPX_MaxRetrans), TCV_T := 10 + ((C_T_Wait/ 1000) + 1), TCV_T := (TCV_T * TCV_K) * 2)			1.
2		START T_guard(TCV_T)			
3		(TCV_Cnt1 := 0)			
4		REPEAT ltree_main UNTIL [TCV_Cnt1 = 2]			
		ltree_main			
5		[TCV_Cnt1 = 0]			
6		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass , C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, TSPX_Txint, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
7		(TCV_S := OC_LookupS(TSPX_Txint, TCV_Upd))			2.
8		+localtree(TCV_Upd)			
9		(TCV_Cnt1 := TCV_Cnt1 + 1)			
10		[TCV_Cnt1 = 1]			
11		(TCV_slot := C_S0, TCV_tsc := C_BCC, TCV_Upd := C_NotCombined)			
12		+NonCombinedBCCH_A(C_E_default, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, C_Immass, C_S0, C_BCC, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, TSPX_Txint, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			
14		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
15		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
16		START T_dly(C_T_Wait1stChReq)			
17		?TIMEOUT T_dly			
18		(TCV_S := OC_LookupS(TSPX_Txint, TCV_Upd))			2.
19		+localtree(TCV_Upd)			
20		(TCV_Cnt1 := TCV_Cnt1 + 1)			
		localtree(mode: BOOLEAN)			
21		(TCV_kcnt := 0, TCV_M :=0)			
22		REPEAT localtree1(mode) UNTIL [TCV_kcnt =TCV_K]			
23		(TCV_Res :=OC_InRang(TSPX_Txint, TSPX_MaxRetrans, TCV_M))			
24	L_0042	[TCV_Res]		(P)	
25	L_0043	[NOT TCV_Res]		(F)	
		localtree1(mode: BOOLEAN)			
26		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		3.
27		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn1 := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
28		(TCV_Cnt :=0)			
29		REPEAT localtree2(mode) UNTIL [TCV_Cnt = TSPX_MaxRetrans]			
30		+localtree3			
31		?TIMEOUT T_dly			
32		(TCV_kcnt := TCV_kcnt +1)			
		localtree2(mode: BOOLEAN)			
33		CANCEL T_dly			
34		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_17)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
35		(TCV_Fk := OC_RachSlots(TCV_Fn1, TCV_Fn, mode, 1), TCV_Fn1 := TCV_Fn, TCV_Cnt := TCV_Cnt+1)			4.
36	L_0044	[(TCV_Fk >= TCV_S) AND (TCV_Fk <= (TCV_S+TSPX_Txint− 1))]		(P)	5.
37		[TCV_Fk >= (TCV_S + (TSPX_Txint + 1) / 2)]			
38		(TCV_M := TCV_M + 1)			
39		[TCV_Fk < (TCV_S + (TSPX_Txint + 1) / 2)]			
40	L_0045	[(TCV_Fk < TCV_S) OR (TCV_Fk > (TCV_S+TSPX_Txint − 1))]		(F)	6.
		localtree3			
41	L_0046	[TCV_kcnt = TCV_K]		(P)	
42		[TCV_kcnt < TCV_K]			
43		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_02(TCV_Rr, TCV_Fn))		

Detailed Comments :
1. To setup the timeout value for guard timer, each excuton of one sequence= 10s.
2. To generate the required parameters.
3. To start the measuring.
4. To get the number of the CCCH RACH slots between the moment where the last CHANNEL REQUEST received and the reception of the new CHANNEL REQUEST.
5. The f(i, k) is in the set {S, S+1, ...S+T−1}.
6. The f(i, k) is not in the set {S, S+1, ...S+T−1}, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_1_3

Group : InitialTest/

Purpose : To verify that an MS produces different random references for a CHANNEL REQUEST. If a MS always produces the same random reference, it makes possible that different MSs of the same product series produce the same random reference.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(360)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+localtree			
		localtree			
4		(TCV_Cnt := 0)			
5	body	REPEAT localtree1 UNTIL [TCV_Cnt = 7]			
6		(TCV_Res := OC_SaveAndProc3(TCV_Rr, C_PROC, TCV_Cnt))			1.
7	L_0047	[TCV_Res]		P	
8	L_0048	[NOT TCV_Res]		F	2.
		localtree1			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf)	ChReq(ChRequest_17)		
11		(TCV_Null := OC_SaveAndProc3(TCV_Rr, C_SAVE,TCV_Cnt))			3.
12		L?DL_RacInChRq	ChReq(ChRequest_17)		4.
13		START T_dly(C_T_Wait+3000)			5.
14		(TCV_Cnt := TCV_Cnt+1)			
15		?TIMEOUT T_dly			

Detailed Comments :
1. To analyse the distribution of the random references.
2. The random references are not randomly distributed.
3. To record the random reference.
4. The MS retransmits the channel request once more.
5. To wait long enough to guarantee that the MS is in service.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_2

Group : InitialTest/

Purpose :
1) To verify that the MS correctly performs IMSI detach/attach procedures when it is required by the network and upon deactivation/activation or SIM removal/insertion and does not perform these procedures when not required.

2) To verify that the mobile station acknowledges a re−allocated TMSI during IMSI attach.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	+procedure1			
4		+procedure2			
5		+SetATT(C_TxInt_5, C_Max_1, C_ATT_1, C_NECI_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			1.
6		+procedures3			
7		+procedures4			
		procedure1			
8		+ImsiDetachNoReaction (5000, C_SIMIn)			2.
9		+ImsiAttachNoReaction(30000, C_SIMIn)			4.
		procedure2			
10		[TSPC_SIMRmv]			
11		(TCV_Null :=OO_SIMRmv())			6.
12		+NoReaction(5000)			3.
13		(TCV_Null := OO_SIMIns())			7.
14		+NoReaction(30000)			5.
15		[NOT TSPC_SIMRmv]			
		procedures3			
16		+MM_PwrOrSimOff (C_SIMIn)			
17		[(TSPC_DetachOnPwrDn) OR (TSPC_SwitchOnOff)]			
18		+imsidetach			
19		+MM_PwrOrSimOn (C_SIMIn)			
20		+locup(MiTmsi_02iei)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		[(NOT TSPC_DetachOnPwrDn) AND (NOT TSPC_SwitchOnOff)]			
22		+MM_PwrOrSimOn (C_SIMIn)			
23		+locup(MiTmsi_02iei)			
		procedures4			
24		[(TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			
25		(TCV_Null :=OO_SIMRmv())			
26		+imsidetach			
27		(TCV_Null := OO_SIMIns())			
28		+locup(MiTmsi_01iei)			
29		[(NOT TSPC_SIMRmv) AND (TSPC_DetachOnPwrDn)]			
30		+MM_PwrOrSimOff (C_SIMIn)			
31		+imsidetach			
32		+MM_PwrOrSimOn (C_SIMIn)			
33		+locup(MiTmsi_01iei)			
34		[((NOT TSPC_SIMRmv) AND (NOT TSPC_DetachOnPwrDn)) OR ((NOT TSPC_DetachOnSIMRmv) AND (TSPC_SIMRmv)) OR ((NOT TSPC_DetachOnSIMRmv) AND (NOT TSPC_DetachOnPwrDn))]			
35		+MM_PwrOrSimOff (C_SIMIn)			
36		+MM_PwrOrSimOn (C_SIMIn)			
37		+locup(MiTmsi_01iei)			
		activitychk(t: INTEGER)			
38		START T_dly(t)			
39	L_0049	?TIMEOUT T_dly		(P)	
		locup(newmi : MI)			
40		+channelrequest			
41		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_imsi_attach))		9.
42		ACTIVATE(OtherEventsFail)			Restore Normal default
43		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, C_MCC_1, C_PLMN_1, TCV_lac))		10.
44	L_0050	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	
45		+channelrelease			
		imsidetach			
46		+channelrequest			
47	L_0051	L?DL_EstInImsidIn	ImsiDet(ImsiDetach_01)	(P)	8.

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48		ACTIVATE(OtherEventsFail)			Restore Normal default
49		+channelrelease			
		channelrequest			
50		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
51		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
52		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
		channelrelease			
53		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
54		L?DL_RelIn	DLRelInd_01		

Detailed Comments :
1. To set ATT = 1 for procedures3 and procedures4.
2. To switch off or power down the MS.
3. The test system checks for 5 seconds that MS shall not initiate the IMSI detach procedure.
4. To switch on or power up the MS.
5. The test system checks for 30 seconds that MS shall not initiate the IMSI attach procedure.
6. If possible to remove the SIM.
7. To insert the SIM to the MS under test.
8. The MS initiate IMSI detach procedure.
9. The location updating type shall be IMSI attach
10. To allocate a new TMSI.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_3

Group : InitialTest/

Purpose : To verify that V(SD) is correctly set to 0 at the beginning of the establishment of the first RR connection and to verify that the MS handles correctly this variable in the special case of IDENTITY REQUEST messages, which are MM messages.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		TMSI paging ...
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
7		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
10		L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)	IDRes(IDResponse_01)		
11		+check1			1.
12		(TCV_Cnt := 0)			
13		REPEAT localtree UNTIL [TCV_Cnt = 5]			
14		+PostLinkRelEnd(TCV_ch)			3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree			
15		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
16		L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)	IDRes(IDResponse_01)		
17		+check2			
18		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
19		L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)	IDRes(IDResponse_01)		
20	L_0052	[OC_Bit7(TCV_Mt) = '0'B]		(P)	1.
21		(TCV_Cnt := TCV_Cnt+1)			
22	L_0053	[OC_Bit7(TCV_Mt) = '1'B]		(F)	
23		(TCV_Cnt := TCV_Cnt+1)			
		check1			
24	L_0054	[OC_Bit7(TCV_Mt) = '1'B]		(F)	
25	L_0055	[OC_Bit7(TCV_Mt) = '0'B]		(P)	
		check2			
26	L_0056	[OC_Bit7(TCV_Mt) = '0'B]		(F)	
27	L_0057	[OC_Bit7(TCV_Mt) = '1'B]		(P)	2.

Detailed Comments : 1. The N(SD) shall be 0.
2. The N(SD) shall be 1.
3. The test system waits the disconnection of the main signalling link.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_1

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:
If the MS supports a service on a traffic channel:
when the NECI bit is set to 0 and call re−establishment is attempted and the call was established on TCH/H if the MS supports a service on half rate channel or on TCH/F otherwise.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+local_HalfRateSvcOtherwiseFullRate			
3		+BasicServiceMO(TCV_Service1, TCV_ChRate1)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
6	body	+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
7		(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			2.
8		+localtree			
		localtree			
9		(TCV_Cnt :=0)			
10		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
11	L_0058	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_10)	(P)	3.
12		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree1			
13		L?DL_RacInChRq	ChReq(ChRequest_10)		3.
14		(TCV_Cnt := TCV_Cnt +1)			
		local_HalfRateSvcOtherwiseFullRate			
15		(TCV_ChRate1 := C_Half)			
16		[TSPX_MOChRateA = C_Half]			
17		(TCV_Service1 := TSPX_MOBscSvcA)			
18		[TSPX_MOChRateB = C_Half]			
19		(TCV_Service1 := TSPX_MOBscSvcB)			
20		[TSPX_MOChRateC = C_Half]			
21		(TCV_Service1 := TSPX_MOBscSvcC)			
22		[TSPX_MOChRateD = C_Half]			
23		(TCV_Service1 := TSPX_MOBscSvcD)			
24		[TSPX_MOChRateE = C_Half]			
25		(TCV_Service1 := TSPX_MOBscSvcE)			
26		[TSPX_MOChRateF = C_Half]			
27		(TCV_Service1 := TSPX_MOBscSvcF)			
28		[TSPX_MOChRateG = C_Half]			
29		(TCV_Service1 := TSPX_MOBscSvcG)			
30		[TSPX_MOChRateH = C_Half]			
31		(TCV_Service1 := TSPX_MOBscSvcH)			
32		[TSPX_MOChRateI = C_Half]			
33		(TCV_Service1 := TSPX_MOBscSvcI)			
34		[TSPX_MOChRateJ = C_Half]			
35		(TCV_Service1 := TSPX_MOBscSvcJ)			
36		[C_Yes]			otherwise
37		(TCV_Service1 := TSPX_MOBscSvcA, TCV_ChRate1 := TSPX_MOChRateA)			

Detailed Comments :
1. To set up a call. The generic call setup procedure is used.
2. To stop transmission on the channel SACCH.
3. The establishment cause shall be ’110’B, otherwise the test case fails in the default tree OtherEventsFail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_2

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:
If the MS supports a service on half rate channel:
when the NECI bit is set to 1 and call re−establishment is attempted and the call was established on TCH/H.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+local_PickupHalfRateSvc			
3		+BasicServiceMO(TCV_Service1, C_Half)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_1, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
5		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
6		+ltree_body			
		ltree_body			
7		+Est_MO_Call(TimingAdv(0), C_Half, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
8		(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			3.
9		(TCV_Cnt :=0)			
10		REPEAT localtree UNTIL [TCV_Cnt=7]			
11	L_0059	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_11)	(P)	4.
12		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_RacInChRq	ChReq(ChRequest_11)		4.
14		(TCV_Cnt := TCV_Cnt +1)			
		local_PickupHalfRateSvc			
15		[TSPX_MOChRateA = C_Half]			
16		(TCV_Service1 := TSPX_MOBscSvcA)			
17		[TSPX_MOChRateB = C_Half]			
18		(TCV_Service1 := TSPX_MOBscSvcB)			
19		[TSPX_MOChRateC = C_Half]			
20		(TCV_Service1 := TSPX_MOBscSvcC)			
21		[TSPX_MOChRateD = C_Half]			
22		(TCV_Service1 := TSPX_MOBscSvcD)			
23		[TSPX_MOChRateE = C_Half]			
24		(TCV_Service1 := TSPX_MOBscSvcE)			
25		[TSPX_MOChRateF = C_Half]			
26		(TCV_Service1 := TSPX_MOBscSvcF)			
27		[TSPX_MOChRateG = C_Half]			
28		(TCV_Service1 := TSPX_MOBscSvcG)			
29		[TSPX_MOChRateH = C_Half]			
30		(TCV_Service1 := TSPX_MOBscSvcH)			
31		[TSPX_MOChRateI = C_Half]			
32		(TCV_Service1 := TSPX_MOBscSvcI)			
33		[TSPX_MOChRateJ = C_Half]			
34		(TCV_Service1 := TSPX_MOBscSvcJ)			
35	L_006 0	[C_Yes]		I	no half rate service

Detailed Comments :
1. The NECI = 1.
2. To set up a call on the TCH/H by generic call setup procedure.
3. To stop transmission on the SACCH.
4. The establishment cause shall be ’011010’B, otherwise the test case fails in the default tree.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_3

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:

If the MS supports speech:

1. when the NECI bit is set to 0 and a speech call is attempted.
2. when the NECI bit is set to 1 and a speech call is attempted.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_Telephony, TSPX_Telephony_Rate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4	body	+neci0Behaviour			
5		+SetNECI(C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			2.
6		+neci1Behaviour			
		neci0Behaviour			
7		+InitCall(TCV_Service)			3.
8		(TCV_Cnt :=0)			
9		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
10	L_0061	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	4.
11		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		neci1Behaviour			
12		START T_dly(30000)			5.
13		?TIMEOUT T_dly			
14		+InitCall(TCV_Service)			3.
15		(TCV_Cnt := 0)			
16		REPEAT localtree2 UNTIL [TCV_Cnt=7]			
17		[NOT TSPC_DualRate]			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	L_0062	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	6.
19		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
20		[TSPC_DualRate]			
21	L_0063	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_05)	(P)	7.
22		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		localtree1			
23		L?DL_RacInChRq	ChReq(ChRequest_04)		4.
24		(TCV_Cnt := TCV_Cnt +1)			
		localtree2			
25		[TSPC_DualRate]			
26		L?DL_RacInChRq	ChReq(ChRequest_05)		7.
27		(TCV_Cnt := TCV_Cnt +1)			
28		[NOT TSPC_DualRate]			
29		L?DL_RacInChRq	ChReq(ChRequest_04)		6.
30		(TCV_Cnt := TCV_Cnt +1)			

Detailed Comments :
1. The Max_retrans = 7.
2. To set NECI = 1.
3. To attempt a speech call.
4. The establishment cause shall be ’111’B, otherwise the test case fails in the default tree OtherEventsFail.
5. The test system waits for 30 seconds.
6. The establishment cause shall be ’111’B if the MS does not support half rate speech.
7. The establishment cause shall be ’0100’B if the MS supports half rate speech.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_4

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:

If the MS supports a data service:

1. when the NECI bit is set to 0 and a data call is attempted.
2. when the NECI bit is set to 1 and a data call is attempted for a service supported on half rate channel (if the MS does not support any data call on half rate channel any data service is used).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+local_PickupDataService			
3		+BasicServiceMO(TCV_Service1, TCV_ChRate1)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
5	body	+neci0Behaviour			
6		+SetNECI(C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			2.
7		START T_dly(30000)			3.
8		?TIMEOUT T_dly			
9		+neci1Behaviour			
		neci0Behaviour			
10		+InitCall(TCV_Service)			4.
11		(TCV_Cnt :=0)			
12		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
13	L_0064	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	5.
14		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		neci1Behaviour			
15		+InitCall(TCV_Service)			6.
16		(TCV_Cnt := 0)			
17		+local_rcv_ChRq			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		local_rcv_ChRq			
19		[TSPC_DualRate AND TSPC_HalfRateData]			
20		REPEAT localtree2 UNTIL [TCV_Cnt=7]			
21	L_0065	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_06)	(P)	7.
22		[C_Yes]			
23		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
24	L_0066	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	5.
		localtree1			
25		L?DL_RacInChRq	ChReq(ChRequest_04)		5.
26		(TCV_Cnt := TCV_Cnt +1)			
		localtree2			
27		L?DL_RacInChRq	ChReq(ChRequest_06)		7.
28		(TCV_Cnt := TCV_Cnt +1)			
		local_PickupDataService			
29		[(TSPX_MOBscSvcA <> C_Telephony) AND (TSPX_MOBscSvcA <> C_EmgCall)]			
30		(TCV_Service1 := TSPX_MOBscSvcA, TCV_ChRate1 := TSPX_MOChRateA)			
31		[(TSPX_MOBscSvcB <> C_Telephony) AND (TSPX_MOBscSvcB <> C_EmgCall)]			
32		(TCV_Service1 := TSPX_MOBscSvcB, TCV_ChRate1 := TSPX_MOChRateB)			
33		[(TSPX_MOBscSvcC <> C_Telephony) AND (TSPX_MOBscSvcC <> C_EmgCall)]			
34		(TCV_Service1 := TSPX_MOBscSvcC, TCV_ChRate1 := TSPX_MOChRateC)			
35		[(TSPX_MOBscSvcD <> C_Telephony) AND (TSPX_MOBscSvcD <> C_EmgCall)]			
36		(TCV_Service1 := TSPX_MOBscSvcD, TCV_ChRate1 := TSPX_MOChRateD)			
37		[(TSPX_MOBscSvcE <> C_Telephony) AND (TSPX_MOBscSvcE <> C_EmgCall)]			
38		(TCV_Service1 := TSPX_MOBscSvcE, TCV_ChRate1 := TSPX_MOChRateE)			
39		[(TSPX_MOBscSvcF <> C_Telephony) AND (TSPX_MOBscSvcF <> C_EmgCall)]			
40		(TCV_Service1 := TSPX_MOBscSvcF, TCV_ChRate1 := TSPX_MOChRateF)			
41		[(TSPX_MOBscSvcG <> C_Telephony) AND (TSPX_MOBscSvcG <> C_EmgCall)]			
42		(TCV_Service1 := TSPX_MOBscSvcG, TCV_ChRate1 := TSPX_MOChRateG)			
43		[(TSPX_MOBscSvcH <> C_Telephony) AND (TSPX_MOBscSvcH <> C_EmgCall)]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
44		(TCV_Service1 := TSPX_MOBscSvcH, TCV_ChRate1 := TSPX_MOChRateH)			
45		[(TSPX_MOBscSvcI <> C_Telephony) AND (TSPX_MOBscSvcI <> C_EmgCall)]			
46		(TCV_Service1 := TSPX_MOBscSvcI, TCV_ChRate1 := TSPX_MOChRateI)			
47		[(TSPX_MOBscSvcJ <> C_Telephony) AND (TSPX_MOBscSvcJ <> C_EmgCall)]			
48		(TCV_Service1 := TSPX_MOBscSvcJ, TCV_ChRate1 := TSPX_MOChRateJ)			
49	L_0067	[C_Yes]		I	no data service

Detailed Comments :
1. The Max_retrans =7.
2. To set NECI = 1.
3. The test system waits for 30 seconds.
4. To attempt a data call.
5. The establishment cause shall be ’111’B, otherwise the test case fails in the default tree OtherEventsFail.
6. To attempt a data call if the MS supports half rate data service.
7. The establishment cause shall be ’0101’B, otherwise the test case fails in the default tree OtherEventsFail.
8. To attempt any data call if the MS does not support half rate data service.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_5

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:

1. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "any channel".
2. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "SDCCH".
3. when the NECI bit is set to 0 and the MS is paged with he paging indication set to "TCH/F".
4. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "TCH/H or TCH/F".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	+pagingAnyChannel			
4		+pagingSDCCH			
5		+pagingTCHF			
6		+pagingTCHHorTCHF			
		pagingAnyChannel			
7		L!DL_UdatRqPg1Rq (TCV_Cnt := 0)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		1.
8		REPEAT localtree1 UNTIL [TCV_Cnt = 7]			
9	L_0068	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_12)	(P)	2.
10		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		pagingSDCCH			
11		?TIMEOUT T_dly			
12		L!DL_UdatRqPg1Rq (TCV_Cnt := 0)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_02)		4.
13		REPEAT localtree2 UNTIL [TCV_Cnt = 7]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14	L_0069	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_03)	(P)	5.
15		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		pagingTCHF			
16		?TIMEOUT T_dly			
17		L!DL_UdatRqPg1Rq (TCV_Cnt := 0)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_03)		6.
18		REPEAT localtree3 UNTIL [TCV_Cnt = 7]			
19	L_0070	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_13)	(P)	
20		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		pagingTCHHorTCHF			
21		?TIMEOUT T_dly			
22		L!DL_UdatRqPg1Rq (TCV_Cnt := 0)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_04)		10.
23		REPEAT localtree4 UNTIL [TCV_Cnt = 7]			
24	L_0071	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_14)	(P)	
25		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
		localtree1			
26	L_0072	L?DL_RacInChRq	ChReq(ChRequest_12)	(P)	2.
27		(TCV_Cnt := TCV_Cnt +1)			
		localtree2			
28	L_0073	L?DL_RacInChRq	ChReq(ChRequest_03)	(P)	5.
29		(TCV_Cnt := TCV_Cnt +1)			
		localtree3			
30		[TCV_CC AND (NOT TSPC_DualRate)]			
31	L_0074	L?DL_RacInChRq	ChReq(ChRequest_12)	(P)	7.
32		(TCV_Cnt := TCV_Cnt +1)			
33		[TSPC_DualRate]			
34	L_0075	L?DL_RacInChRq	ChReq(ChRequest_07)	(P)	8.
35		(TCV_Cnt := TCV_Cnt +1)			
36		[TSPC_SDCCHOnly]			
37	L_0076	L?DL_RacInChRq	ChReq(ChRequest_03)	(P)	9.
38		(TCV_Cnt := TCV_Cnt +1)			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		localtree4			
39		[TCV_CC AND (NOT TSPC_DualRate)]			
40	L_0077	L?DL_RacInChRq	ChReq(ChRequest_12)	(P)	11.
41		(TCV_Cnt := TCV_Cnt +1)			
42		[TSPC_DualRate]			
43	L_0078	L?DL_RacInChRq	ChReq(ChRequest_08)	(P)	12.
44		(TCV_Cnt := TCV_Cnt +1)			
45		[TSPC_SDCCHOnly]			
46	L_0079	L?DL_RacInChRq	ChReq(ChRequest_03)	(P)	13.
47		(TCV_Cnt := TCV_Cnt +1)			

Detailed Comments :
1. To send a PAGING REQUEST TYPE1 message with paging indication = any channel.
2. The establishment cause shall be ’100’B.
3. The test system waits for 5 seconds.
4. To send a PAGING REQUEST TYPE1 message with paging indication = SDCCH.
5. The establishment cause shall be ’0001’B.
6. To send a PAGING REQUEST TYPE1 message with paging indication = TCH/F.
7. The establishment cause shall be ’100’B, if the MS capability is full rate only.
8. The establishment cause shall be ’0010’B, if the MS capability is dual rate.
9. The establishment cause shall be ’0001’B, if the MS capability is SDCCH only.
10. To send a PAGING REQUEST TYPE1 message with paging indication = TCH/H or TCH/F
11. The establishment cause shall be ’100’B, if the MS capability is full rate only.
12. The establishment cause shall be ’0011’B, if the MS capability is dual rate.
13. The establishment cause shall be ’0001’B, if the MS capability is SDCCH only.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_6

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:

1. when the NECI bit is set to 0 and IMSI attach is attempted.
2. when the NECI bit is set to 0 and normal location updating is attempted.
3. when the NECI bit is set to 0 and periodic location updating is attempted.
4. when the NECI bit is set to 0 and IMSI detach is attempted.
5. when the NECI bit is set to 1 and IMSI attach is attempted.
6. when the NECI bit is set to 1 and normal location updating is attempted.
7. when the NECI bit is set to 1 and periodic location updating is attempted.
8. when the NECI bit is set to 1 and IMSI detach is attempted.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Cnt1:=0, TCV_lac := C_LAC_1)			
4		REPEAT ltree_main UNTIL [TCV_Cnt1 = 2]			
		ltree_main			
5		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, TCV_lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			1.
6		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
7		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
8	body	+MM_PwrOrSimOff (C_SIMIn)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, TCV_lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			ATT =1
10		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
11		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
12		+MM_PwrOrSimOn (C_SIMIn)			2.
13		+imsiAttachCheck			
14		+ChgLac			
15		+ltree_continue			
		ltree_continue			
16		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, TCV_lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			3.
17		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
18		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
19		+UpdatingCheck(33000, C_normal_updating)			7. 9.
20		+UpdatingCheck(420000, C_periodic_updating)			10. 11.
21		[TSPC_SwitchOnOff]			
22		+imsiDetachCheck			
23		(TCV_Cnt1 := TCV_Cnt1 + 1)			
24		[NOT TSPC_SwitchOnOff]			
25		(TCV_Cnt1 := TCV_Cnt1 + 1)			
		imsiAttachCheck			
26		(TCV_Cnt := 0)			
27		REPEAT localtree1 UNTIL [TCV_Cnt = 8]			
28		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29	L_0080	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_imsi_attach))	(P)	5.
30		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		6.
31		+PostMainLinkRel(TCV_ch)			
		UpdatingCheck(t : INTEGER; locup : B_2)			
32		(TCV_Cnt := 0)			
33		START T_dly(t)			
34	L_1041	?TIMEOUT T_dly		(F)	
35		REPEAT localtree1 UNTIL [TCV_Cnt = 8]			
36		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
37	L_0081	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))	(P)	
38		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		6.
39		+PostMainLinkRel(TCV_ch)			
		imsiDetachCheck			
40		+MM_PwrOrSimOff (C_SIMIn)			12.
41		(TCV_Cnt := 0)			
42		REPEAT localtree2 UNTIL [TCV_Cnt = 8]			
43		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
44		+MM_PwrOrSimOn (C_SIMIn)			2.
		localtree1			
45		[TCV_Cnt1=0]			
46	L_0082	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)	(P)	4.
47		CANCEL T_dly			
48		(TCV_Cnt := TCV_Cnt+1)			
49		[TCV_Cnt1=1]			
50	L_0083	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_18)	(P)	8.
51		(TCV_Cnt := TCV_Cnt+1)			
		localtree2			
52		[TCV_Cnt1=0]			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
53	L_0084	L?DL_RacInChRq (TCV_Fn := DL_RacInChRq.fn, TCV_Rr := DL_RacInChRq. msg.ecau_rrf)	ChReq(ChRequest_04)	(P)	13.
54		(TCV_Cnt := TCV_Cnt+1)			
55		[TCV_Cnt1=1]			
56	L_0085	L?DL_RacInChRq (TCV_Fn := DL_RacInChRq.fn, TCV_Rr := DL_RacInChRq. msg.ecau_rrf)	ChReq(ChRequest_03)	(P)	14.
57		(TCV_Cnt := TCV_Cnt+1)			
		ChgLac			
58		[TCV_Cnt1=0]			
59		(TCV_lac := C_LAC_2)			
60		[TCV_Cnt1=1]			
61		(TCV_lac := C_LAC_1)			

Detailed Comments :
1. To set ATT = 1, i.e. MS's in the cell shall apply IMSI attach and detach procedure. TCV_Cnt1 value stands for NECI bit value.
2. To switch on or power on the MS.
3. To change LAC and set T3212 = 6 minutes.
4. The establishment cause shall be '000'B.
5. The location updating type shall be IMSI attach.
6. There is no mobile identity in this LOCATION UPDATING ACCEPT message.
7. The test system waits upto 33 seconds to receive CHANNEL REQUEST messages.
8. The establishment cause shall be '0000'B.
9. The location updating type shall be normal location updating.
10. The test system waits upto 7 minutes to receive CHANNEL REQUEST messages.
11. The location updating type shall be periodic updating.
12. To switch off the MS.
13. The establishment cause shall be '111'B.
14. The establishment cause shall be '0001'B.

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_7

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:
If the MS supports a non call related supplementary service operation:
when the NECI bit is set to 0 and a supplementary service operation is attempted at the MS.
when the NECI bit is set to 1 and a supplementary service operation is attempted at the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Cnt1:=0)			
4		REPEAT ltree_main UNTIL [TCV_Cnt1 = 2]			
		ltree_main			
5		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			1.
6		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
7		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
8	body	+InitNonCallSupp			2.
9		(TCV_Cnt :=0)			
10		REPEAT localtree UNTIL [TCV_Cnt=7]			
11		[TCV_Cnt1=0]			
12	L_0086	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
14		(TCV_Cnt1 := TCV_Cnt1 +1)			
15		[TCV_Cnt1=1]			
16	L_008 7	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_03)	(P)	4.
17		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
18		(TCV_Cnt1 := TCV_Cnt1 +1)			
		localtree			
19		[TCV_Cnt1=0]			
20		L?DL_RacInChRq	ChReq(ChRequest_04)		3.
21		(TCV_Cnt := TCV_Cnt +1)			
22		[TCV_Cnt1=1]			
23		L?DL_RacInChRq	ChReq(ChRequest_03)		4.
24		(TCV_Cnt := TCV_Cnt +1)			

Detailed Comments :
1. The Max_retrans =7. TCV_Cnt1 value stands for NECI bit value.
2. To attempt a non call related supplementary service at the MS under test.
3. The establishment cause shall be ’111’B (NECI = 0).
4. The establishment cause shall be ’0001’B (NECI = 1).

Test Case Dynamic Behaviour

Test Case Name : TC_26_2_4_8

Group : InitialTest/

Purpose : To verify that the establishment cause sent by the MS in the Max−Retrans+1 CHANNEL REQUEST messages is consistent with the requested service, with the capabilities of the MS and with the indications of the network in the following case:

If the MS supports SMS/PP MO:

when the NECI bit is set to 0 and a mobile originated short message service transaction is attempted.

when the NECI bit is set to 1 and a mobile originated short message service transaction is attempted.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Cnt1:=0)			
4		REPEAT ltree_main UNTIL [TCV_Cnt1 = 2]			
		ltree_main			
5		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)			1.
6		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
7		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
8	body	+AtmpShortMsg			2.
9		(TCV_Cnt :=0)			
10		REPEAT localtree UNTIL [TCV_Cnt=7]			
11		[TCV_Cnt1=0]			
12	L_0088	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
14		(TCV_Cnt1 := TCV_Cnt1 +1)			
15		[TCV_Cnt1=1]			
16	L_0089	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_03)	(P)	4.
17		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
18		(TCV_Cnt1 := TCV_Cnt1 +1)			
		localtree			
19		[TCV_Cnt1=0]			
20		L?DL_RacInChRq	ChReq(ChRequest_04)		3.
21		(TCV_Cnt := TCV_Cnt +1)			
22		[TCV_Cnt1=1]			
23		L?DL_RacInChRq	ChReq(ChRequest_03)		4.
24		(TCV_Cnt := TCV_Cnt +1)			

Detailed Comments :
1. The Max_retrans =7. TCV_Cnt1 value stands for NECI bit value.
2. To attempt a mobile originated short message service transaction at the MS under test.
3. The establishment cause shall be ’111’B (NECI = 0).
4. The establishment cause shall be ’0001’B (NECI = 1).

Test Case Dynamic Behaviour

Test Case Name : TC_26_3_2

Group : IdleMode/

Purpose : To verify that a MS can present the available PLMNs to the user when asked to do so in manual mode according to the requirements of GSM 05.08 and 02.11.

Configuration :

Default : OtherEventsFail

Comments : For the test the SIM shall contain a PLMN−Selector that contains only the HPLMN and a empty forbidden PLMN list. Final verdict is assigned in the test step PLMNsCHK

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(65, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_10, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_1, C_cch_1Comb, C_BPM_2, C_T3212_0, C_ci_cellA, C_MCC_2, C_PLMN_4, C_LAC_1, CellOpt_02, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_05, BcchFreqLst_05, BcchFreqLst_13, BcchFreqLst_13, C_noRestablishment, C_BCC, C_NCC_0, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_1, C_arfcnAd_1, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+MM_PwrOrSimOff (C_SIMIn)			
4		+StartMultiCells_01(C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_2, C_T3212_0, C_MCC_3, C_PLMN_5, C_MCC_4, C_PLMN_6, C_MCC_5, C_PLMN_7, C_MCC_6, C_PLMN_8, C_MCC_7, C_PLMN_9, C_MCC_8, C_PLMN_10, C_MCC_1, C_PLMN_1, C_LAC_1)			
5	body	+MM_PwrOrSimOn (C_SIMIn)			
6		(TCV_Null := OO_PLMNselModeMan())			
7		+PLMNsCHK			1.
8		(TCV_Null := OO_PLMNselModeAuto())			

Detailed Comments : 1. Final verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_3_3

Group : IdleMode/

Purpose : To verify that the MS will not produce any RF transmission if no BSS is received.

Configuration :

Default : OtherEventsFail

Comments : For the test the SIM shall contain a PLMN−Selector that contains only the HPLMN and a empty forbidden PLMN list. Final verdict is assigned in the test steps ServiceIndCHK and RFtransCHK

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(65, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_10, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_1, C_cch_1Comb, C_BPM_2, C_T3212_0, C_ci_cellA, C_MCC_2, C_PLMN_4, C_LAC_1, CellOpt_02, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_05, BcchFreqLst_05, BcchFreqLst_13, BcchFreqLst_13, C_noRestablishment, C_BCC, C_NCC_0, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_1, C_arfcnAd_1, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+StartMultiCells_01(C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, ’001’B, ’001’B, ’010’B, ’00’O, C_MCC_3, C_PLMN_5, C_MCC_4, C_PLMN_6, C_MCC_5, C_PLMN_7, C_MCC_6, C_PLMN_8, C_MCC_7, C_PLMN_9, C_MCC_8, C_PLMN_10, C_MCC_1, C_PLMN_1, C_LAC_1)			
5	body	+StopAllBCCH			
6		START T_dly(20000)			
7		?TIMEOUT T_dly			
8		+InitCall(TCV_Service)			
9		+RFtransCHK			1.
10		[TSPC_Serv_TS12]			
11		+InitCall(C_EmgCall)			
12		+RFtransCHK			1.
13		[NOT TSPC_Serv_TS12]			

Detailed Comments : 1. The verdict is assigned in these test steps.

Test Case Dynamic Behaviour

Test Case Name : TC_26_3_4

Group : IdleMode/

Purpose : To verify that in manual mode the MS is able to obtain normal service on a PLMN which is neither the better nor a preferred PLMN and that it tries to obtain service on VPLMN if and only if the user selects it manually.

Configuration :

Default : OtherEventsFail

Comments : For the test the preferred PLMN list of the SIM does not contain PLMN2('02'O) but contains PLMN3('03'O). The MS shall be set to manual mode before the test starts.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+IdleUpdated(38, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC_2, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+StartCellB_1(33, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_2, C_LAC_2, C_noRestablishment, C_BCC, C_NCC)			
4		(TCV_Null := OO_PLMNselModeMan())			
5		+ltree_body			
		ltree_body			
6		(TCV_Null := OM_StopCell(C_CellA))			
7		+NoReaction(120000)			1.
8		+StartCellA_1(48, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_3, C_LAC_1, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment)			
9		+NoReaction(120000)			1.
10		(TCV_Null := OO_SelPLMN(C_PLMN_2))			
11		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
12		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
14	L_0090	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_05)	(P)	2.
15		ACTIVATE(OtherEventsFail)			Restore Normal default
16		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, C_LAC_1))		
17		+PostMainLinkRel(TCV_ch)			
18		(TCV_Null := OM_StopCell(C_CellB))			
19		+NoReaction(120000)			1.
20		(TCV_Null := OO_PLMNselModeAuto())			

Detailed Comments : 1. During 2 minutes the MS does not send any CHANNEL REQUEST, pass. If the MS does the test case fail in the default tree.
2. The expected LOCATION UPDATING REQUEST message received on Cell B.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_1

Group : BiBo/

Purpose : To verify that a MS supporting TCH and the call control protocol ignores a message containing an undefined protocol discriminator in the special case of a message coded otherwise like a CC STATUS ENQUIRY message received by the MS having a mobile terminating call in CC−state U10, "active".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	[TCV_CC]			1.
4		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
7		L!DL_DatRqUnknown	Unknown(TCV_chTch, UnknownMsg_01(TI_02))		2.
8		START T_dly(10000)			
9	L_0091	?TIMEOUT T_dly		(P)	
10		+PostMainLinkRel(TCV_chTch)			
11		[NOT TCV_CC]			3.
12		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
13		L!DL_DatRqUnknown	Unknown(TCV_ch, UnknownMsg_02(TI_04))		4.
14		START T_dly(10000)			
15	L_0092	?TIMEOUT T_dly		(P)	
16		+PostMainLinkRel(TCV_ch)			

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Test Case Dynamic Behaviour

Detailed Comments : 1. If the MS supports any bearer capability the test case goes through this branch.
2. To send a CC STATUS ENQUIRY alike unknown message on channel FACCH.
3. If the MS does not support any bearer capability the test case goes through this branch.
4. To send a CC STATUS ENQUIRY alike unknown message on channel SDCCH4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_2_1_1

Group : BiBo/

Purpose : To verify that the MS ignores an RR message with skip indicator different from H'0 in the special case of a PAGING REQUEST TYPE 1 message received in the MM−state "idle, updated" and in RR−idle mode.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Cnt :=1)			
4	body	REPEAT localtree UNTIL [TCV_Cnt = 7]			
5		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_inv_01(8))		1.
6		START T_dly(3000)			
7	L_0093	?TIMEOUT T_dly		(P)	
		localtree			
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_inv_01(TCV_Cnt))		1.
9		START T_dly(3000)			
10		?TIMEOUT T_dly			
11	L_0094	(TCV_Cnt := TCV_Cnt+1)		(P)	

Detailed Comments : 1. To send PAGING REQUEST TYPE 1 message with unknown skip indictor.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_2_1_2

Group : BiBo/

Purpose : To verify that the MS ignores RR messages with skip indicator different from H'0 in the case of a message being received during the RR−connection establishment in the MM−state "idle, updated" / "wait for network command" and in RR−connected mode.
RR−connected mode.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
5		L!DL_UdatRqImmass START T_dly1(1000)	ImmAss(TCV_agch, ImmAsgn_inv_01(TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		2.
6		+chRq_check			
7		L!DL_UdatRqImmassRej START T_dly1(1000)	ImmAssRej(TCV_agch, ImmAsgnRej_inv_01(TCV_Rr, TCV_Fn))		4.
8		+chRq_check			
9		+continue			
		continue			
10		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		valid message
11		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
12		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDef, TSPX_RANDDef))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
14		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_inv_02)		5.
15		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
16		L?DL_DatInIdRes	IDRes(IDResponse_01)		
17		L!DL_DatRqAssCmd	AssCmd(TCV_ch, AsgnCmd_inv_01(TCV_slot, TCV_tsc))		6.
18		+check2			
19		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_inv_01(TCV_slot, TCV_tsc, C_NCC_1, C_BCC_3, C_arfcnA))		7.
20		+check3			
21		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_inv_02)		9.
22		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
23	L_0095	L?DL_DatInIdRes	IDRes(IDResponse_01)	(P)	
24		+PostLinkRelEnd(TCV_ch)			
		check2			
25		START T_dly(3000)			
26	L_0096	L?DL_EstIn	DLEstInd(TCV_ch)	(F)	
27	L_0097	?TIMEOUT T_dly		(P)	
		check3			
28		START T_dly(3000)			8.
29		L?DL_EstIn	DLEstInd(TCV_ch)		
30	L_0098	L?DL_DatInHofl	HndOvFlRcv(TCV_ch, HandOvFail_01)	(F)	
31	L_0099	L?DL_DatInRrst	RrStatusRcv(TCV_ch, RRStatus_01)	(F)	
32	L_0100	?TIMEOUT T_dly		(P)	
		chRq_check			
33	L_0101	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly1	ChReq(ChRequest_17)	(P)	3.
34	L_0102	?TIMEOUT T_dly1		(F)	

Detailed Comments :
1. To set the Max_Retrans = 2.
2. To send an invalid IMMEDIATE ASSIGNMENT message with skip indicator = 1.
3. Retransmission of Channel request within 1s indicates that mobile ignored the message with invalid skip indicator.
4. To send an invalid IMMEDIATE ASSIGNMENT REJECT message with skip indicator = 2.
5. To send an invalid CIPHERING MODE COMMAND message with skip indicator = 3.
6. To send an invalid ASSIGNMENT COMMAND message with skip indicator = 4.

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Test Case Dynamic Behaviour	
Detailed Comments :	... 7. To send an invalid HANDOVER COMMAND message with skip indicator = 5. 8. To check that there is no HANDOVER FAILURE or RR−STATUS message on old channel. 9. To send an invalid CHANNEL RELEASE message with skip indicator = 6.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_2_2

Group : BiBo/

Purpose : To verify that the MS ignores an MM message with skip indicator different from H'0 in the special case of an MS supporting the call control protocol and an IDENTITY REQUEST message received in the active state of a mobile terminating call.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	[TCV_CC]			
4		+BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
7		+maintest1			
8		[NOT TCV_CC]			2.
9		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
10		+maintest2			
		maintest1			
11		(TCV_Cnt := 0)			
12		REPEAT subtree1 UNTIL [TCV_Cnt = 6]			
13		L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_inv_01(8))		3.
14		START T_dly(5000)			
15	L_0103	?TIMEOUT T_dly		(P)	
16		+PostMainLinkRel(TCV_chTch)			
		maintest2			
17		(TCV_Cnt := 0)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		REPEAT subtree2 UNTIL [TCV_Cnt = 6]			
19		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_inv_01(8))		4.
20		START T_dly(5000)			
21	L_0104	?TIMEOUT T_dly		(P)	
22		+PostMainLinkRel(TCV_ch)			
		subtree1			
23		L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_inv_01(TCV_Cnt+1))		3.
24		START T_dly(1000)			
25	L_0105	?TIMEOUT T_dly		(P)	
26		(TCV_Cnt := TCV_Cnt + 1)			
		subtree2			
27		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_inv_01(TCV_Cnt+1))		4.
28		START T_dly(1000)			
29	L_0106	?TIMEOUT T_dly		(P)	
30		(TCV_Cnt := TCV_Cnt + 1)			

Detailed Comments :
1. This subtree is for the MS supporting at least one bearer capability.
2. This subtree is for the MS not supporting any bearer capability.
3. To send an invalid IDENTITY REQUEST message containing incorrect skip indicator on channel FACCH.
4. To send an invalid IDENTITY REQUEST message containing incorrect skip indicator on channel SDCCH4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_2_3

Group : BiBo/

Purpose : a) To verify that the MS having a mobile terminating call in CC−state U10, "active", on receipt of a DISCONNECT message which includes a transaction identifier which is not recognised as relating to an active call or a call in progress, sends a RELEASE COMPLETE message with cause value #81 and referring to the latter TI without changing the state of the active call (this is verified by use of the status enquiry procedure).

b) To verify that the MS having a mobile terminating call in CC−state U10, "active", on receipt of a

b1) RELEASE COMPLETE message which includes a transaction identifier with a value different from 111, which is not recognised as relating to an active call or a call in progress, or a

b2) SETUP message with TI flag referring to a transaction originated by the MS (in the special case where the TI value is equal to the TI value relating to the active call), or a

b3) SETUP message with TI referring to the active call, ignores that message without changing the state of the active call (this is verified by use of the status enquiry procedure).

c) To verify that the MS ignores a CC mesage with a TI value 111.

The test is only applicable to an MS supporting the call control protocol for at least one BC.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	+test_a			
7		+test_b1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+test_b2			
9		+test_b3			
10		+test_c			
		test_a			
11		L!DL_DatRqDisc	Disc_inv(TCV_chTch, Disconn_inv_01(TI_03))		1.
12		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_52(TI_05))		
13		+CCstatuschk_01(TCV_chTch, C_U10)			
		test_b1			
14		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_02(TI_04))		2.
15		START T_dly(5000)			
16	L_0107	?TIMEOUT T_dly		(P)	
17		+CCstatuschk_01(TCV_chTch, C_U10)			
		test_b2			
18		L!DL_DatRqSetup	SetupSnd(TCV_chTch, Setup_inv_01(TI_01))		3.
19		START T_dly(5000)			
20	L_0108	?TIMEOUT T_dly		(P)	
21		+CCstatuschk_01(TCV_chTch, C_U10)			
		test_b3			
22		L!DL_DatRqSetup	SetupSnd(TCV_chTch, Setup_03(TI_02))		4.
23		START T_dly(5000)			
24	L_0109	?TIMEOUT T_dly		(P)	
25		+CCstatuschk_01(TCV_chTch, C_U10)			
		test_c			
26		L!DL_DatRqDisc	Disc_inv(TCV_chTch, Disconn_inv_01(TI_06))		5.
27		START T_dly(5000)			
28	L_0110	?TIMEOUT T_dly		(P)	
29		+CCstatuschk_01(TCV_chTch, C_U10)			
30		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. The TI value of the DISCONNECT message does not refer to the active call.
2. The TI value of the RELEASE COMPLETE message does not refer to the active call ("0000'B).
3. The TI flag of the SETUP message is set to 1 and TI value refers to the active call.
4. This SETUP contains TI refers to the active call ('0000'B).
5. The TI value of the DISCONNECT message is '111'B.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_3_1

Group : BiBo/

Purpose : To verify that a MS supporting the call control protocol for at least one BC, having a mobile terminating call in CC−state U10, "active", on receipt of a message with CC protocol discriminator and an arbitrary undefined message, returns a STATUS message with cause value #97 to the peer CC entity without changing the state of the active call (this is verified by use of the status enquiry procedure.)

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcD, TSPX_MTChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TI_02))		1.
7	L_0111	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_02(TI_01))	(P)	
8		+CCstatuschk_01(TCV_chTch, C_U10)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. This is an undefined CC message.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_3_2

Group : BiBo/

Purpose : To verify that a MS supporting the call control protocol for at least one BC, having a mobile terminating call in CC−state U10, "active", on receipt of a message with MM protocol discriminator and message type undefined for the mobility management protocol, returns an MM−STATUS message with reject cause value #97 without changing the state of the active call (this is verified by use of the status enquiry procedure.) This is tested in the special case where the CC TI has value 0 (so that it has the same encoding as the skip indicator when sent from the SS) and where the message type has the same encoding as DISCONNECT in CC.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcE, TSPX_MTChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqUndefMM	UndefMM(TCV_chTch, UndefMM_01)		1.
7	L_0112	L?DL_DatInMmst	MMSt(MMstatus_01)	(P)	
8		+CCstatuschk_01(TCV_chTch, C_U10)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. This is an undefined MM message.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_3_3

Group : BiBo/

Purpose : To verify that an MS in RR connected mode on receipt of a message with RR protocol discriminator and message type undefined for the RR protocol, returns an RR−STATUS message with reject cause value #97 without changing its state (this is checked by observing that the MS does not send L3 messages.)

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		[TSPC_MTsvc]			
3		+BasicServiceMT(TSPX_MTBscSvcD, TSPX_MTChRateD)			
4		+maintree			
5		[NOT TSPC_MTsvc]			
6		+maintree			
		maintree			
7		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
8		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
9	body	L!DL_DatRqUndefRR	UndefRR(TCV_ch, UndefRR_01)		1.
10		L?DL_DatInRrst	RrStatusRcv(TCV_ch, RRStatus_03)		
11		START T_dly(5000)			Start L2 fill frame check
12	L_0113	L?OTHERWISE		F	L3 msg received
13	L_0114	?TIMEOUT T_dly		(P)	
14		[TSPC_MTsvc]			2.
15		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
16		+Ciphering_on(TCV_ch)			
17		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
18	L_0115	L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+PostMainLinkRel(TCV_ch)			
20		[NOT TSPC_MTsvc]			3.
21		L!DL_DatRqSetup	SetupSnd(TCV_ch, Setup_01(TI_02))		
22	L_0116	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	
23		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To send an undefined RR message.
2. If the MS supports at least one bearer capability, the test case goes through this subtree.
3. If the MS does not support any bearer capability, the test case goes through this subtree.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_3_4

Group : BiBo/

Purpose : To verify that a MS supporting the call control protocol for at least one BC, having a call in CC−state U10, "active", on receipt of an inopportune CC message, returns a STATUS message with reject cause value #98 without changing the state of the active call (this is verified by use of the status enquiry procedure.) This is tested in the special case where the inopportune CC message is a CALL PROCEEDING message relating to the active call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcF, TSPX_MTChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqCallProc	CallProc(TCV_chTch, CallProced_01(TI_02))		2.
7	L_0117	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_03(TI_01))	(P)	
8		+CCstatuschk_01(TCV_chTch, C_U10)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To enter CC state U10.
2. To send an inopportune CALL PROCEEDING message.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_4_1

Group : BiBo/

Purpose : To verify that the MS ignores an unforeseen second occurrence of an information element with format T, TV, or TLV in the special case of the mobile identity IE which has format TLV in the LOCATION UPDATING ACCEPT message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+StartCellB_1(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, C_noRestablishment, C_BCC, C_NCC)			
4	body	+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			1.
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01(TCV_RaCh, ChRequest_09)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		2.
8		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))		
9		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L!DL_DatRqLupAcpErr	LocAcp_inv(TCV_ch, MiImsi_01iei, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_2)		3.
11		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
12		L?DL_RelIn	DLRelInd_01		
13		START T_dly(5000)			
14		?TIMEOUT T_dly			
15		+localtree			
		localtree			
16		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		4.
17		START T_dly(C_T_Wait)			
18		?TIMEOUT T_dly			
19		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		5.
20	L_0118	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01(C_RACH_B_1, ChRequest_01)	(P)	
21		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		

Detailed Comments :
1. MS reselects cell B.
2. The cell B assigns C_SDCCH4_B_1 to the MS.
3. To send an invalid LOCATION UPDATING ACCEPT message containing duplicated IE's.
4. To send a PAGING REQUEST TYPE 1 message containing mobile identity = TMSI of the MS.
5. To send a PAGING REQUEST TYPE 1 message containing mobile identity = IMSI of the MS.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_1_1_1

Group : BiBo/

Purpose : To verify that the MS in RR connected mode releases the connection upon receipt of a CHANNEL RELEASE message with missing RR cause (which is "mandatory" in that message).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
4	body	L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_inv_01)		1.
5	L_0119	L?DL_RelIn	DLRelInd_01	P	

Detailed Comments : 1. To send an invalid CHANNEL RELEASE message missing mandatory RR cause IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_1_1_2

Group : BiBo/

Purpose : To verify that the MS in RR connected mode ignores a ciphering mode command message in which the ciphering mode setting IE and cipher response IE are missing except for the fact that it returns a RR−STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
4	body	L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_inv_01)		1.
5	L_0120	L?DL_DatInRrst	RrStatusRcv(TCV_ch, RRStatus_02)	(P)	
6		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To send an invalid CIPHERING MODE COMMAND missing mandatory ciphering mode setting IE and cipher response IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_1_2

Group : BiBo/

Purpose : To verify that the MS having an RR−connection established ignores a HANDOVER COMMAND message containing in the non−imperative part an IE encoded as comprehension required except for the fact that it returns a RR−STATUS message with cause # 96 "invalid mandatory information".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	[TCV_CC]			1.
4		+BasicServiceMT(TSPX_MTBscSvcG, TSPX_MTChRateG)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
7		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_inv_02(TSPX_TmSltDef, TSPX_TscDef, C_NCC_1, C_BCC_3, C_arfcnA))		2.
8	L_0121	L?DL_DatInRrst	RrStatusRcv(TCV_chTch, RRStatus_02)	(P)	
9		+PostMainLinkRel(TCV_chTch)			
10		[NOT TCV_CC]			3.
11		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
12		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_inv_02(TSPX_TmSltDef, TSPX_TscDef, C_NCC_1, C_BCC_3, C_arfcnA))		4.
13	L_0122	L?DL_DatInRrst	RrStatusRcv(TCV_ch, RRStatus_02)	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. If the MS supports at least one bearer capability, the test case goes through this subtree.
2. To send an invalid HANDOVER COMMAND message containing comprehension requires IE on the channel TCV_chTch.
3. The test case goes through this subtree if the MS does not support any bearer capability.
4. To send an invalid HANDOVER COMMAND message containing comprehension requires IE on the channel TCV_ch.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_2_1

Group : BiBo/

Purpose : To verify that an MS supporting at least one BC, having a CC entity in state U10, "active", ignores an MM message with syntactically incorrect IE except for the fact that it sends an MM−STATUS message with reject cause #96. This is tested in the special case of an IDENTITY REQUEST message in which the (mandatory) identity type IE specifies a reserved value for the type of identity; that the MS otherwise ignores the message is checked by means of the status enquiry procedure.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcH, TSPX_MTChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_inv_02)		1.
7	L_0123	L?DL_DatInMmst	MMSt(MMstatus_02)	(P)	
8		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			2.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To send an invalid IDENTITY REQUEST message containing the identity type IE = reserved value.
2. To check whether the MS is still in the state U10. If not the test case fails in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_2_2

Group : BiBo/

Purpose : To verify that an MS having been paged and having an RR connection established ignores an MM message with syntactically incorrect IE except for the fact that it sends an MM−STATUS message with reject cause #96. This is tested in the special case of an IDENTITY REQUEST message in which the (mandatory) identity type IE specifies a reserved value for the type of identity; the fact that the MS otherwise ignores the message is checked by testing that it answers as usual to an incoming SETUP message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		[TSPC_MTsvc]			
3		+BasicServiceMT(TSPX_MTBscSvcF, TSPX_MTChRateF)			
4		+maintree			
5		[NOT TSPC_MTsvc]			
6		+maintree			
		maintree			
7		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
8		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
9	body	L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_inv_02)		1.
10	L_0124	L?DL_DatInMmst	MMSt(MMstatus_02)	(P)	
11		[TSPC_MTsvc]			2.
12		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
13		+Ciphering_on(TCV_ch)			
14		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
15	L_0125	L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	
16		+PostLinkRelEnd(TCV_ch)			
17		[NOT TSPC_MTsvc]			3.
18		L!DL_DatRqSetup	SetupSnd(TCV_ch, Setup_01(TI_02))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19	L_0126	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	
20		+PostLinkRelEnd(TCV_ch)			

Detailed Comments :
1. To send an invalid IDENTITY REQUEST message in which the identity type IE contains reserved value on the channel C_SDCCH4_A_1.
2. This subtree is for the MS which supports at least one bearer capability.
3. This subtree is for the MS which does not support any bearer capability.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_2_3

Group : BiBo/

Purpose : To verify that the MS on receipt of an MM message containing an IE unknown in the message, but encoded as "comprehension required" ignores the message except for the fact that it returns an MM−STATUS message with cause value #96 "invalid mandatory information"; this in the special case of the MM message being a LOCATION UPDATING ACCEPT responding to a LOCATION UPDATING REQUEST from the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+StartCellB_1(C_E_neighbourdefault, C_Immass,TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, C_noRestablishment, C_BCC, C_NCC)			
4	body	+localbody			
		localbody			
5		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			1.
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01(TCV_RaCh, ChRequest_09)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
9		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(Mi_01, C_MCC_1, C_PLMN_1, C_LAC_2))		2.
12		L?DL_DatInMmst	MMSt(MMstatus_02)		
13		L?DL_RelIn	DLRelInd_01		
14		+ltree_continue			
		ltree_continue			
15		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
16		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
17		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
18		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiImsi_01))		
19		ACTIVATE(OtherEventsFail)			Restore Normal default
20		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_2))		3.
21		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
22	L_0127	L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)	(P)	
23		L?DL_RelIn	DLRelInd_01		

Detailed Comments : 1. To lower the RF level of cell A until the MS selects cell B.
2. To send a LOCATION UPDATING ACCEPT message containing comprehension required IE.
3. To send a LOCATION UPDATING ACCEPT message containing location area identification = cell B and mobile identity = TMSI.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_3_1_1

Group : BiBo/

Purpose : To verify that the MS having an MT call in state U10, "active", on receipt of a DISCONNECT message in which the mandatory cause IE is missing shall return a RELEASE message with cause value #96 "invalid mandatory information".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcI, TSPX_MTChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqDisc	Disc_inv(TCV_chTch, Disconn_inv_02(TI_02))		1.
7	L_0128	L?DL_DatInRel	ReleaseRcv(Release_01(TI_01))	(P)	
8		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_02(TI_02))		
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To send an invalid DISCONNECT message in which the mandatory cause IE is missing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_3_1_2

Group : BiBo/

Purpose : To verify that the MS having an MT call in state U10, "active", on receipt of a STATUS message in which the mandatory cause IE and call state IE are missing shall ignore the message except for the fact that it return a STATUS message with cause value #96 "invalid mandatory information" (that the MS doesn't change state is checked by use of the status enquiry procedure).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcJ, TSPX_MTChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqCcst	CCStSnd(TCV_chTch, CCStatus_inv_01(TI_02))		1.
7	L_0129	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_04(TI_01))	(P)	
8		+CCstatuschk_01(TCV_chTch, C_U10)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To send an invalid STATUS message in which the mandatory cause IE and call state IE are missing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_5_3_2

Group : BiBo/

Purpose : To verify that an MS supporting the call control protocol for at least one BC having a call control entity in state U3 ignores a CONNECT message containing in the non−imperative part an IE encoded as comprehension required except for the fact that it returns a STATUS message with cause value #96 "invalid mandatory information".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+PreEnterCCstateU3(TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqConnErr	Conn_invSnd(TCV_ch, Connect_inv_01(TCV_TI))		1.
6	L_0130	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_04(TCV_TI0))	(P)	2.
7		+CCstatuschk_03(C_U3, TCV_TI)			3.
8		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
9		L?DL_RelIn	DLRelInd_01		

Detailed Comments :
1. To send an invalid CONNECT message containing comprehension required IE.
2. The expected STATUS message received.
3. To check whether the MS is still in the state U3.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_1_1

Group : BiBo/

Purpose : To verify that the MS on receipt of an MM message containing an IE unknown in the message and unknown in the MM protocol which is not encoded as "comprehension required" ignores that IE; this in the special case of the MM message being a LOCATION UPDATING ACCEPT responding to a LOCATION UPDATING REQUEST from the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
3		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_45, BcchFreqLst_03, C_noRestablishment)			
4		+ltree_body			
		ltree_body			
5		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
9		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))		2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqLupAcpErr	LocAcp_inv(TCV_ch, Mi_02, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)		3.
12	L_0131	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	
13		+local_postamble			
14		+PostMainLinkRel(TCV_ch)			
		local_postamble			
15		+TmsiReallocation(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)			4.

Detailed Comments :
1. The MS listen to cell B.
2. The mobile identity is TMSI of the MS.
3. To send an invalid LOCATION UPDATING ACCEPT message containing unknown IEI and new TMSI.
4. Local Postamble: to ensure that the test case terminates with the default TMSI.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_1_2

Group : BiBo/

Purpose : To verify that the MS on receipt of an MM message containing an IE unknown in the message, but known in the MM protocol, which is not encoded as "comprehension required" ignores that IE; this in the special case of the MM message being a LOCATION UPDATING ACCEPT responding to a LOCATION UPDATING REQUEST from the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
3		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_45, BcchFreqLst_03, C_noRestablishment)			
4		+ltree_body			
		ltree_body			
5		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
9		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))		2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqLupAcpErr	LocAcp_inv(TCV_ch, Mi_06, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)		3.
12	L_0132	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	
13		+local_postamble			
14		+PostMainLinkRel(TCV_ch)			
		local_postamble			
15		+TmsiReallocation(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)			4.

Detailed Comments :
1. The MS listen to cell B.
2. The mobile identity is TMSI of the MS.
3. To send a LOCATION UPDATING ACCEPT message containing unknown IE and new TMSI.
4. Local Postamble: to ensure that the test case terminates with the default TMSI.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_2_1

Group : BiBo/

Purpose : To verify that an MS supporting the CC protocol for at least one BC receiving a CC message containing an IE unknown in the message which is not encoded as "comprehension required" ignores that IE; this in the special case of the CC message being a CALL PROCEEDING message received by the MS in state U1.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+PreEnterCCstateU1(TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqCallProc	CallProc(TCV_ch, CallProced_inv_02(TCV_TI))		1.
6		+CCstatuschk_03(C_U3, TCV_TI)			2.
7		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
8		L?DL_RelIn	DLRelInd_01		

Detailed Comments : 1. To send an invalid CALL PROCEEDING message containing optional unknown IE.
2. To check whether the MS enters the state U3, the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_2_2

Group : BiBo/

Purpose : To verify that an MS supporting the CC protocol for at least one BC receiving a CC message containing an IE unknown in the message which is not encoded as "comprehension required" ignores that IE; this in the special case of a DISCONNECT message received by the MS in state U10.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcJ, TSPX_MTChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqDiscErr	Disc_inv_err(TCV_chTch, Disconn_inv_03(TI_02))		2.
7	L_0133	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	
8		+CCstatuschk_01(TCV_chTch, C_U19)			
9		L!DL_DatRqChRel	ChRel(TCV_chTch, ChRelease_01)		
10		L?DL_RelIn	DLRelInd_01		

Detailed Comments : 1. To enter CC state U10.
2. To send an invalid DISCONNECT message containing optional unknown IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_2_3

Group : BiBo/

Purpose : To verify that an MS supporting the CC protocol for at least one BC receiving a CC message containing an IE unknown in the message which is not encoded as "comprehension required" ignores that IE; this in the special case of a RELEASE message received by the MS having sent in state U10 a DISCONNECT message

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	(TCV_Null := OO_TermCall())			
7		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))		
8		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, ReleaseReq_inv_01(TI_02))		2.
9	L_0134	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To enter CC state U10.
2. To send an invalid RELEASE REQUEST message containing unknown optional IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_2_4

Group : BiBo/

Purpose : To verify that an MS supporting the CC protocol for at least one BC receiving a CC message containing an IE unknown in the message which is not encoded as "comprehension required" ignores that IE; this in the special case of a RELEASE COMPLETE message received by the MS in state U19.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
7		L?DL_DatInRel	ReleaseRcv(Release_02)		
8		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_inv_02(TI_02))		1.
9	L_0135	L?DL_RelIn	DLRelInd_01	(P)	

Detailed Comments : 1. To send an invalid RELEASE COMPLETE message containing unknown optional IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_6_3

Group : BiBo/

Purpose : To verify that the MS ignores an IE which is unknown in a message for Radio Resource Management in the special cases of CIPHERING MODE COMMAND, ASSIGNMENT COMMAND and CHANNEL RELEASE.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_ChRate := C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_12man, CellChDes_12dman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltNotZero1, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_ChMod_s, FreqTCHa_21g, FreqTCHa_21d, C_Noarfcn, C_Noarfcn)			
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
6		(TCV_Null := OM_CphMdChg(TCV_ch, CphMod_03, TCV_CphKey))			
7	body	L!DL_DatRqCphmCmdErr	CphCmd_inv(TCV_ch, CphModeCmd_inv_03)		1.
8	L_0136	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	
9		+AssCmdGen_fh(C_Full, TSPX_TmSltNotZero1, TSPX_TscDef, TSPX_TCHHSubDef, 7, 7, '000000'B, '000000'B, Frql_02, Frql_02, CellChDes_12, CellChDes_12d, ChMod_sign_iei, MoblAllc_02, MoblAllc_02, CphMod_omit)			With power level 7, 1st unknow IE
10		(TCV_AssCmd.ch2d_at := UnknownIE)			2nd unkown IE
11		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2.
12		L!DL_DatRqChRelErr	ChRel_inv(TCV_chTch)		3.
13	L_0137	L?DL_RelIn	DLRelInd_01	(P)	

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Test Case Dynamic Behaviour	
Detailed Comments :	1. To send a CIPHERING MODE COMMAND message containing an unknown IE. 2. To send an ASSIGNMENT COMMAND message containing 2 unknown IEs. 3. To send a CHANNEL RELEASE message containing an unknown IE.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_1_1

Group : BiBo/

Purpose : To verify that the MS ignores the value of spare bits in the special case of the spare bits occurring in the P1 Rest Octets IE of a PAGING REQUEST TYPE 1 message. That the spare bits are ignored is checked by addressing the MS in that PAGING REQUEST message and verifying that the MS responds to that paging.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_inv_04)		1.
4	L_0138	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)	(P)	
5		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		

Detailed Comments : 1. To send a PAGING REQUEST TYPE1 message containing rest octets which are not all ’2B’O.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_1_2

Group : BiBo/

Purpose : To verify that the MS in the MM−state "idle, updated" and in RR−idle mode ignores the value of spare bits in the special case where these spare bits are contained in SI3 rest octets IE and SI4 rest octets IE. That the MS ignores the value of the spare bits is checked by changing the LAI in those message and observing the MS initiating a location update though the spare bits do not all have the default value.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+modifysysinfo			
4	body	START T_dly(30000)			
5	L_0139	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_09)	(P)	
6		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn))		
7	L_0140	?TIMEOUT T_dly		F	
		modifysysinfo			
8		[TSPC_PGSM OR TSPC_EGSM]			
9		L!DL_UdatRqSysinfo3	SysInfo3_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		1.
10		L!DL_UdatRqSysinfo4	SysInfo4_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		
11		[TSPC_DCS]			
12		L!DL_UdatRqSysinfo3 (DL_UdatRqSysinfo3.msg.csp := CellSelPara_04)	SysInfo3_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		1.
13		L!DL_UdatRqSysinfo4 (DL_UdatRqSysinfo4.msg.csp := CellSelPara_04)	SysInfo4_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		

Detailed Comments : 1. To send modified SYSTEM INFORMATION TYPE 3 and TYPE 4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_1_3

Group : BiBo/

Purpose : To verify that the MS in the MM−state "idle, updated" and in RR−idle mode ignores the value of spare bits in the special case of the spare bits occurring in the Page Mode IE, the Spare Half Octet IE, the Channel Description IE, the Timing Advance IE, the IA Rest Octet IE, and in the IAR Rest Octet IE.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	+localtree1			
		localtree1			
4		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L! DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_inv_04(TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TimingAdv_inv, TCV_chdescr_arfcn))		1.
8	L_0141	L?DL_EstInPgRes	PagingRes(PagingRes_01)	(P)	
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
11	L_0142	L?DL_RelIn	DLRelInd_01	(P)	
12		START T_dly(10000)			
13		?TIMEOUT T_dly			
14		+localtree2			
		localtree2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
16		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
17		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_inv_02(TCV_Rr,TCV_Fn))		2.
18		START T_dly(6000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21	L_0143	L?DL_RacInChRq	ChReq(ChRequest_17)	P	
Detailed Comments : 1. To send an invalid IMMEDIATE ASSIGNMENT message containing arbitrary spare bits. 2. To send an invalid IMMEDIATE ASSIGNMENT REJECT message containing arbitrary spare bits.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_1_4

Group : BiBo/

Purpose : To verify that the MS in the MM−state "MM−Connection active" and in RR−Connected mode ignores the value of spare bits in the special case of the spare bits occurring in the Cell Channel Description IE and in the Power Command IE.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCHa1, FreqTCHa2, C_Noarfcn, C_Noarfcn)			1.
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
6	body	+Ciphering_on(TCV_ch)			
7		(TCV_Setup_mt.sig := Signal_01)			
8		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2.
9		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		
10		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
11		+localtree1			
12		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
13		+localtree1			
		localtree1			
14		+AssCmdGen_fh(TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, 7, 3, ’000000’B, ’111111’B, Frql_omit, Frql_omit, CellChDes_01, CellChDes_01d, TCV_ChMod, MoblAllc_r03, MoblAllc_r03, CphMod_04iei(TSPX_CphAlgDef))			3.
15		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+PostLinkRelEnd(TCV_chTch)			4.

Detailed Comments : 1. To setup a physical channel as hopping traffic channel.
2. To send SETUP message indicating full rate channel and containing signal IE.
3. To send a modified ASSIGNMENT COMMAND containing randomly chosen spare bits.
4. The assignment procedure succeeds.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_2

Group : BiBo/

Purpose : To verify that the MS in the MM−state "wait net cmd" and in RR−Connected mode ignores the value of spare bits in the special case of the spare bits occurring in the Cipher Key Seq. Number IE or in the Identity Type IE.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
4	body	L!DL_DatRqAuthRq	AuthReq_inv_01(TCV_ch, TSPX_RANDDef)		1.
5	L_0144	L?DL_DatInAuthRes	AuthRes(AuthResponse)	(P)	
6		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_inv_03)		2.
7	L_0145	L?DL_DatInIdRes	IDRes(IDResponse_02)	(P)	
8		+PostLinkRelEnd(TCV_ch)			

Detailed Comments : 1. To send a modified AUTHENTICATION REQUEST message containing arbitrary spare bits.
2. To send a modified IDENTITY REQUEST message containing arbitrary spare bits.

Test Case Dynamic Behaviour

Test Case Name : TC_26_5_7_3

Group : BiBo/

Purpose : To verify that the MS in the MM−state "connection established" and in RR−Connected mode ignores the value of spare bits in the special case of the spare bits occurring in the Calling party BCD Number IE, Calling Party Subaddress IE, Called Party Subaddress IE, Cause IE and Progress Indicator IE.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcI, C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
6	body	L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDef, TSPX_RANDDef))		
7		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
8		+Ciphering_on(TCV_ch)			
9		+localtree			
		localtree			
10		(TCV_Setup_mt.sig :=Signal_01, TCV_Setup_mt.cgpn := Cgpn_01, TCV_Setup_mt.cgps := Cgps_01, TCV_Setup_mt.cdpn := Cdpn_01, TCV_Setup_mt.cdps := Cdps_01)			
11		L!DL_DatRqSetup	SetupSnd(TCV_ch, Setup_inv_02(TI_02))		1.
12	L_0146	L?DL_DatInCallCo	CallCfm(CallConfirm_03(TI_01))	(P)	
13		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
14		(TCV_Null := OO_HookOff())			
15		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+localtree1			
17		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
18		+localtree1			
		localtree1			
19		+AssCmdGen(TCV_cellid, C_Full, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
20		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
21		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
22		L!DL_DatRqDisc	Disc_inv(TCV_chTch, Disconn_inv_04(TI_02))		
23		+CCstatuschk_01(TCV_chTch, C_U12)			2.
24		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TI_02))		
25		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
26		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To send a SETUP message containing arbitrary spare bits.
2. To check whether the MS enters the state U12, if no the test case fails in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_1_1

Group : RR/

Purpose : To verify that the MS can correctly set up a dedicated SDCCH control channel and that the MS can correctly set up a dedicated TCH/FACCH control channel.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
4	body	+testSdcch8			
5		[TCV_CC AND (NOT TSPC_DualRate)]			
6		+testTchf			
7		[TSPC_DualRate]			
8		+testTchh			
9		+testTchf			
10		[C_Yes]			
		testSdcch8			
11		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
12		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
13		+channelass(TCV_ch)			3.
		testTchf			
14		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			4.
15		?TIMEOUT T_dly			
16		(TCV_Tchtype := ’00001’B)			
17		+channelass(TCV_chTch)			5.
		testTchh			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+HalfRateCh_A_1_nociph(TSPX_TCHHSubA, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			6.
19		?TIMEOUT T_dly			
20		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubA)), 5))			
21		+channelass(TCV_chTch)			7.
		channelass(ch : LOGICCH)			
22		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
23		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(C_T_Wait)	ChReq(ChRequest_17)		
24		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r(ChDescrp_nfh(TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn), TCV_Rr, TCV_Fn, TimingAdv(30)))		
25	L_0147	L?DL_EstInPgRes	PgRes(ch, PagingRes_01)	(P)	
26		+PostMainLinkRel(ch)			

Detailed Comments :
1. To setup a physical channel as non−combined ccch/sdcch, 5 slots for Tx−int, 1 retransmission
2. To setup a physical channel as SDCCH8.
3. To assign a SDCCH8 channel.
4. To setup a physical channel as full rate traffic channel.
5. To assign a full rate channel channel.
6. To setup a physical channel as half rate traffic channel.
7. To assign a half rate channel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_1_2

Group : RR/

Purpose : To verify that the MS goes to the allocated SDCCH/4 and sends a PAGING RESPONSE message containing its identity and its classmark. To verify that the MS goes to the allocated SDCCH/8 and sends a PAGING RESPONSE message containing its identity and its classmark. To verify that the MS can correctly identify its own assignment in either the Request Reference 1 or the Request Reference 2 information element in an extended assignment message. To verify that the MS only reacts to an Immediate Assignment which references one of the last 3 CHANNEL REQUEST messages from the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3	body	+firstPart			
4		+secondPart			
5		+PreEnterIdleState_r02(C_Immass, TCV_slot, TCV_tsc, C_TxInt_5, C_Max_7, C_SlotNU, C_SlotNU, C_SlotNU, TimingAdv(TSPX_TimadvB), C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			2.
6		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubC, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
8		+CCCH_group_Paging_group(TCV_Ccd0A, TSPX_IMSI)			
9		START T_dly(40000)			
10		?TIMEOUT T_dly			
11		+thirdPart			
		firstPart			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		[(TSPX_nPara < 9) AND (TSPX_nPara > 0) AND (TSPX_i1Para >TSPX_nPara−3) AND (TSPX_i1Para <= TSPX_nPara)]			
13		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
14		(TCV_Cnt := 0)			
15		REPEAT localTree UNTIL [TCV_Cnt = TSPX_nPara]			5.
16		(TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, TSPX_i1Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1))			6. 7.
17		L!DL_UdatRqImmassx	ImmAssX(TCV_agch, ImmAsgnX_r01(TCV_Rqr.ra, TCV_Rqr.fn, TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))		3.
18	L_0148	L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)	(P)	
19		+PostMainLinkRel(TCV_ch)			
20		START T_dly(12000)			
21		?TIMEOUT T_dly			
22	L_0149	[C_Yes] secondPart		(I)	
23		[(TSPX_kPara < 9) AND (TSPX_kPara > 3) AND (TSPX_i2Para >0) AND (TSPX_i2Para <= (TSPX_kPara−3))]			
24		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
25		(TCV_Cnt := 0)			
26		REPEAT localTree UNTIL [TCV_Cnt = TSPX_kPara]			8.
27		(TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, TSPX_i2Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11, 1))			9. 10.
28		L!DL_UdatRqImmassx	ImmAssX(TCV_agch, ImmAsgnX_r01(TCV_Rqr.ra, TCV_Rqr.fn, TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))		3.
29		(TCV_Cnt := 0)			
30		[TSPX_kPara < 8]			
31		REPEAT localTree UNTIL [TCV_Cnt = 8 − TSPX_kPara]			11.
32		+ltree_noL2			
33		[TSPX_kPara = 8]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
34		+ltree_noL2			
35	L_0150	[C_Yes]		(I)	
		ltree_noL2			
36		START T_dly(3000)			
37	L_0151	L?OTHERWISE		F	
38	L_0152	?TIMEOUT T_dly		(P)	
39		START T_dly(7000)			
40		?TIMEOUT T_dly			
		thirdPart			
41		[(TSPX_rPara < 9) AND (TSPX_rPara > 3) AND (TSPX_i3Para >(TSPX_rPara−3)) AND (TSPX_i3Para <= TSPX_rPara)]			
42		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
43		(TCV_Cnt := 0)			
44		REPEAT localTree UNTIL [TCV_Cnt = TSPX_rPara]			13.
45		(TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, TSPX_i3Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 12, 1))			14.
46		L!DL_UdatRqImmassx	ImmAssX(TCV_agch, ImmAsgnX_r02(TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_Rqr.ra, TCV_Rqr.fn, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(TSPX_TimadvB), TCV_tch_arfcn))		4.
47	L_0153	L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)	(P)	
48		+PostMainLinkRel(TCV_ch)			
49	L_0154	[C_Yes]		(I)	
		localTree			
50		L?DL_RacInChRq(TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		15.
51		(TCV_Cnt := TCV_Cnt +1)			
52		(TCV_Rqr10 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, TCV_Cnt, 0))			

Detailed Comments :
1. To broadcast sys_info messages with default contents for RR tests with exception for Max_Retrans that is set to 7 and also to set up a physical channel as combined CCCH/SDCCH.
2. Non combined CCCH/SDCCH, 5 slots for Tx−int, 7 retransmission.
3. To send immediate Assignment Extended message with Request reference (TCV_Rqr) for MS1, and with request reference (TCV_Rqr9) for MS2.
4. To send immediate Assignment Extended message with Request reference (TCV_Rqr) for MS2, request reference (TCV_Rqr9) for MS1.
5. Reception of the first TSPX_nPara Channel Request messages.
6. To have a request reference pertaining to the TSPX_i1Para_i−th Channel Request where

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Test Case Dynamic Behaviour
Detailed Comments : ... TSPX_i1Para_i−th is within {max(1, TSPX_nPara − 2), TSPX_nPara)} 7. To have a request reference different from any request reference the MS has generated. 8. Reception of TSPX_kPara Channel Request messages. TSPX_kPara within the set{4...8}. 9. To have a request reference pertaining to the TSPX_i2Para_i−th Channel Request where TSPX_i2Para_i−th is within {max(1...TSPX_kPara − 3} 10. To have a request reference different from any request reference the MS has generated. 11. Channel Request 8 − TSPX_kPara Channel Requests are sent. 12. Check that the MS does not transmit any layer 2 frames for at least 3 seconds. 13. Reception of TSPX_rPara Channel Request messages. 14. To have a request reference pertaining to the TSPX_i3Para_i−th Channel Request where TSPX_i3Para_i−th is within {max(TSPX_rPara − 2...TSPX_rPara}. 15. This local tree is used to collect and store the frame number and the request reference which are included in each ChReq(ChRequest_17) primitive received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_1_3

Group : RR/

Purpose : To verify that the MS can accept an IMMEDIATE ASSIGNMENT REJECT.
To verify that the MS can respond to paging after an IMMEDIATE ASSIGNMENT REJECT is received on a different cell.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			2. The LAI is the same as cell A.
4	body	+test1			
5		+ltree_switchcelltoB			
6		+test2			
		test1			
7		[(TSPX_n1Para < 9) AND (TSPX_n1Para > 0) AND (TSPX_i4Para >(TSPX_n1Para−3)) AND (TSPX_i4Para <= TSPX_n1Para) AND (TSPX_xPara < 256) AND (TSPX_xPara > 4)]			
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		Cell A
9		(TCV_Cnt := 0)			
10		REPEAT localTree UNTIL [TCV_Cnt = TSPX_n1Para]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		(TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, TSPX_i4Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1), TCV_Rqr10 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11, 1), TCV_Rqr11 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 12, 1), TCV_Time := ((TSPX_xPara + 1) * 1000))			
12		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r01(TCV_Rqr9, TCV_Rqr, TCV_Rqr10, TCV_Rqr11, TSPX_xPara, 0))		
13		START T_dly(TCV_Time)			
14		REPEAT continuePaging UNTIL [TCV_Time = 0]			3.
15		(TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1), TCV_Rqr10 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11, 1), TCV_Rqr11 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 12, 1))			
16		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r01(TCV_Rqr9, TCV_Rqr10, TCV_Rqr, TCV_Rqr11, 0, 255))		
17	L_0155	[C_Yes]		(I)	
		test2			
18		START T_dly(20000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		Cell B
21	L_0156	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01(C_RACH_B_1, ChRequest_01)	(P)	5.
22		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))		
		continuePaging			
23		L!DL_UdatRqPg1Rq START T_dly1(1177)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		Every 5 multiframes
24		L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn) READTIMER T_dly(TCV_Time), CANCEL T_dly1, CANCEL T_dly	ChReq_01(C_RACH_A_1, ChRequest_01)		Received at least one channel request within x+1s.
25		(TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, (TCV_Cnt + 1), 0))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		[(TCV_Time <= (TSPX_xPara * 1000)) AND (TCV_Time > 0)]			received within x s.
27	L_0157	(TCV_Time := 0)		(F)	Fail return
28		[(TCV_Time > (TSPX_xPara * 1000)) OR (TCV_Time = 0)]			received btw x, x+1 s.
29	L_0158	(TCV_Time := 0)		(P)	Pass return
30		?TIMEOUT T_dly1 READTIMER T_dly(TCV_Time)			
31		[TCV_Time = 0]			x+1 s
32		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
33	L_0159	L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq_01(C_RACH_A_1, ChRequest_01)	(P)	4.
34		(TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, (TCV_Cnt + 1), 0))			
35		[TCV_Time <> 0]			Return
		localTree			
36	L_0160	L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq_01(C_RACH_A_1, ChRequest_01)	(P)	
37		(TCV_Cnt := TCV_Cnt +1)			
38		(TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, TCV_Cnt, 0))			
		ltree_switchcelltoB			
39		+Varinit_fix(C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
40		(TCV_Null := OM_ChangeRFOf2Cells(C_CellA, C_E_notsuitable_fSel, C_CellB, C_E_suitable))			

Detailed Comments : 1. To setup a physical channel as combined CCCH/SDCCH, 5 for Tx−int, 7 retransmission used as cell A.
2. To setup a physical channel as combind ccch/sdcch4 used as cell B.
3. To send PAGING REQUEST message every 5 multiframes of the mobile station's paging subgroup for x+1 seconds.
4. The MS responds the paging after x+1 s. expires, pass.
5. The MS responds the paging in cell B, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_1_4

Group : RR/

Purpose : To verify that the MS ignores an assignment for another MS while it is waiting for an assignment of its own.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := OC_FnInc(DL_RacInChRq.fn, 2))	ChReq(ChRequest_17)		2.
5		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
6		START T_dly(2000)			
7		?TIMEOUT T_dly			
8	L_0161	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)	(P)	
9		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))		
10		+localtree1			
11	L_0162	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)	(P)	
12		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))		
13		?TIMEOUT T_dly			
14		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		START T_dly(6000)			
16		?TIMEOUT T_dly			
17		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
18		L?DL_RacInChRq (TCV_Rr := OC_BinAdd(DL_RacInChRq.msg.ecau_rrf, '00000010'B), TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		3.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
20		START T_dly(2000)			
21		?TIMEOUT T_dly			
22		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
23	L_0163	L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))	P	
24		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
25	L_0164	L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))	(P)	
26		?TIMEOUT T_dly			

Detailed Comments : 1. To setup a physical channel as combined bcch/sdcch, default parameters for cell A.
2. making a frame number is of 2 higher.
3. Making a wrong request reference.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_1_5

Group : RR/

Purpose : To verify that the MS correctly responds to an IMMEDIATE ASSIGNMENT message sent after an IMMEDIATE ASSIGNMENT REJECT message.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_7, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
4		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		1st channel request
7		L?DL_RacInChRq (TCV_Rr1 := DL_RacInChRq. msg.ecau_rrf, TCV_Fn1 := DL_RacInChRq.fn)	ChReq(ChRequest_17)		2nd channel request
8		L?DL_RacInChRq	ChReq(ChRequest_17)		3rd ChReq
9		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_04(TCV_Rr, TCV_Fn))		Ref to 1st, wait 6s.
10		START T_dly1(OC_Random(750, 1250))			
11		?TIMEOUT T_dly1			
12		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr1, TCV_Fn1, TSPX_SDCCH8SubD, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		Ref. to 2nd
13	L_0165	L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)	(P)	3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To setup a physical channel as non−combined CCCH/SDCCH, Tx−int= 7 , retransmission = 7.
2. To setup aphysical channel as SDCCH8.
3. The expected PAGING RESPONSE received on the correct channel (TSPX_SDCCH8SubD)

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_1_1

Group : RR/

Purpose : To test that the MS is able to determine its CCCH group and paging group correctly and that the MS responds correctly to various PAGING REQUEST TYPE 1 messages when the page mode is set to normal paging. All valid ways of addressing the MS are tested. It is tested that the MS responds with the same type of identity that is used in the PAGING REQUEST TYPE 1 message. It is tested that the MS ignores fill paging.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS1, 3), TSPX_CcchConf1, INT_TO_BIT((TSPX_PAMFRMS1−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_tree			
4	body	+test1			
5		+test2			
6		+test3			
7		+test4			
8		+test5			
		test1			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		1.
10		+local_immass			
11	L_0166	L?DL_EstInPgRes	PagingRes(PagingRes_r02)	(P)	
12		+PostMainLinkRel(TCV_ch)			
		test2			
13		?TIMEOUT T_dly			
14		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r01)		2.
15		+local_immass			
16	L_0167	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
17		+PostMainLinkRel(TCV_ch)			
		test3			
18		?TIMEOUT T_dly			
19		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r02)		3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+local_immass			
21	L_0168	L?DL_EstInPgRes	PagingRes(PagingRes_r02)	(P)	
22		+PostMainLinkRel(TCV_ch)			
		test4			
23		?TIMEOUT T_dly			
24		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r03)		4.
25		+local_immass			
26	L_0169	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
27		+PostMainLinkRel(TCV_ch)			
		test5			
28		?TIMEOUT T_dly			
29		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r04)		5.
30		START T_dly(1000)			
31	L_0170	?TIMEOUT T_dly		P	
32	L_0171	L?OTHERWISE		F	6.
		local_immass			
33		L?DL_RacInChRq	ChReq(ChRequest_17)		
34		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
35		[(TSPX_CcchConf1 = C_cch_1nonComb) OR (TSPX_CcchConf1 = C_cch_2nonComb) OR (TSPX_CcchConf1 = C_cch_3nonComb) OR (TSPX_CcchConf1 = C_cch_4nonComb)]			
36		L!DL_UdatRqImmass START T_dly(12000)	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
37		[TSPX_CcchConf1 = C_cch_1Comb]			
38		L!DL_UdatRqImmass START T_dly(12000)	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
39	L_0172	[(TSPX_CcchConf1 = C_cch_2Comb) OR (TSPX_CcchConf1 = C_cch_3Comb) OR (TSPX_CcchConf1 = C_cch_4Comb)]		I	
		local_tree			
40		[TSPX_CcchConf1 = C_cch_1Comb]			
41		[TSPX_CcchConf1 <> C_cch_1Comb]			
42		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
43		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS1, 3), TSPX_CcchConf1, INT_TO_BIT((TSPX_PAMFRMS1−2), 3))			

Detailed Comments :
1. Within the paging request message, the 1st MI contains IMSI of the MS, the 2nd is absent.
2. Within the paging request message, the 1st MI contains TMSI of the MS, the 2nd has the IMSI of an another MS.
3. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the IMSI of the MS.
4. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the TMSI of the MS.
5. Within the paging request message, the 1st MI contains TMSI of the MS together with type of no identity, the 2nd is absent .
6. If received any L3 frame FAIL.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_1_2

Group : RR/

Purpose : To test that the MS is able to determine its CCCH group and paging group correctly and that the MS responds correctly to various PAGING REQUEST TYPE 2 messages when the page mode is set to normal paging. All valid ways of addressing the MS are tested. It is tested that the MS responds with the same type of identity that is used in the PAGING REQUEST TYPE 2 message. It is tested that the MS ignores a PAGING REQUEST TYPE 2 message that does not address it.

Configuration :

Default : OtherEventsFail_01

Comments : The configuration is Max−Retrans = 2, combined CCCH/BCCH, BS−AG−BLKS−RES = 2, and BS−PA−MFRMS = 3.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS2, 3), TSPX_CcchConf2, INT_TO_BIT((TSPX_PAMFRMS2−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_tree			
4	body	+test1			
5		+test2			
6		+test3			
7		+test4			
8		+test5			
		test1			
9		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r01)		1.
10		+localtree			
11	L_0173	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
12		+PostMainLinkRel(TCV_ch)			
		test2			
13		?TIMEOUT T_dly			
14		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r02)		2.
15		+localtree			
16	L_0174	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
17		+PostMainLinkRel(TCV_ch)			
		test3			
18		?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r03)		3.
20		+localtree			
21	L_0175	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
22		+PostMainLinkRel(TCV_ch)			
		test4			
23		?TIMEOUT T_dly			
24		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r04)		4.
25		+localtree			
26	L_0176	L?DL_EstInPgRes	PagingRes(PagingRes_r02)	(P)	
27		+PostMainLinkRel(TCV_ch)			
		test5			
28		?TIMEOUT T_dly			
29		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r05)		5.
30		START T_dly(1000)			
31	L_0177	?TIMEOUT T_dly		P	
32	L_0178	L?OTHERWISE		F	6.
		localtree			
33		L?DL_RacInChRq	ChReq(ChRequest_17)		
34		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
35		[(TSPX_CcchConf2 = C_cch_1nonComb) OR (TSPX_CcchConf2 = C_cch_2nonComb) OR (TSPX_CcchConf2 = C_cch_3nonComb) OR (TSPX_CcchConf2 = C_cch_4nonComb)]			
36		L!DL_UdatRqImmass START T_dly(C_T_Wait)	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
37		[TSPX_CcchConf2 = C_cch_1Comb]			
38		L!DL_UdatRqImmass START T_dly(C_T_Wait)	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
39	L_0179	[(TSPX_CcchConf2 = C_cch_2Comb) OR (TSPX_CcchConf2 = C_cch_3Comb) OR (TSPX_CcchConf2 = C_cch_4Comb)]		I	
		local_tree			
40		[TSPX_CcchConf2 = C_cch_1Comb]			
41		[TSPX_CcchConf2 <> C_cch_1Comb]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
42		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
43		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS2, 3), TSPX_CcchConf2, INT_TO_BIT((TSPX_PAMFRMS2−2), 3))			

Detailed Comments :

1. Within the paging request message, the 1st MI contains TMSI of the IUT, the 2nd has the TMSI of an another MS, the 3rd is absent.
2. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the TMSI of the IUT, the 3rd is absent.
3. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the TMSI of the IUT.
4. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the IMSI of the IUT.
5. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the TMSI of the IUT but with the type of no identity.
6. If received any L3 frame FAIL.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_1_3

Group : RR/

Purpose : To test that the MS is able to determine its CCCH group and paging group correctly and that the MS responds correctly to various PAGING REQUEST TYPE 3 messages when the page mode is set to normal paging. All valid ways of addressing the MS are tested.

Configuration :

Default : OtherEventsFail_01

Comments : The configuration is Max−Retrans = 2, 2 non−combined CCCH/BCCH, BS−AG−BLKS−RES = 5, and BS−PA−MFRMS = 6.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_tree			
4	body	+test1			
5		+test2			
6		+test3			
7		+test4			
		test1			
8		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r01)		2.
9		+local_immass			
10	L_0180	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
11		+PostMainLinkRel(TCV_ch)			
		test2			
12		?TIMEOUT T_dly			
13		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r02)		3.
14		+local_immass			
15	L_0181	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
16		+PostMainLinkRel(TCV_ch)			
		test3			
17		?TIMEOUT T_dly			
18		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r03)		4.
19		+local_immass			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20	L_0182	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
21		+PostMainLinkRel(TCV_ch)			
		test4			
22		?TIMEOUT T_dly			
23		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r04)		5.
24		+local_immass			
25	L_0183	L?DL_EstInPgRes	PagingRes(PagingRes_r01)	(P)	
26		+PostMainLinkRel(TCV_ch)			
		local_immass			
27		L?DL_RacInChRq	ChReq(ChRequest_17)		
28		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
29		[(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]			
30		L!DL_UdatRqImmass START T_dly(C_T_Wait)	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubE, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
31		[TSPX_CcchConf3 = C_cch_1Comb]			
32		L!DL_UdatRqImmass START T_dly(C_T_Wait)	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
33	L_0184	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I	
		local_tree			
34		[TSPX_CcchConf3 = C_cch_1Comb]			
35		[TSPX_CcchConf3 <> C_cch_1Comb]			
36		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
37		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubE, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3−2), 3))			

Detailed Comments : 1. To setup three physical channels two as BCCH/CCCH's and one as SDCCH8 channel.
2. Within the paging request message, the 1st MI contains TMSI of the IUT, the 2nd, 3rd and 4th have the TMSIs of another MSs.
3. Within the paging request message, the 2nd MI contains TMSI of the IUT, the 1st, 3rd and 4th

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Test Case Dynamic Behaviour
Detailed Comments : ... have the TMSIs of another MSs. 4. Within the paging request message, the 3rd MI contains TMSI of the IUT, the 1st, 2nd and 4th have the TMSIs of another MSs. 5. Within the paging request message, the 4th MI contains TMSI of the IUT, the 1st, 2nd and 3rd have the TMSIs of another MSs.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_2

Group : RR/

Purpose : To test that the MS is operating in the extended page mode when this is ordered by the SS in either a PAGING REQUEST message or an IMMEDIATE ASSIGNMENT message.

Configuration :

Default : OtherEventsFail

Comments : The configuration is Max−Retrans = 2, 1 non−combined CCCH/BCCH, BS−AG−BLKS−RES = 7, and BS−PA−MFRMS = 9.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3	body	+test1			
4		+test2			
5		+test3			
6		+test4			
7		+test5			
		test1			
8		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_06)		
10		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		2.
11		L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 1, 0))	ChReq(ChRequest_02)		
12	L_018 5	L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 2, 0))	ChReq(ChRequest_02)	(P)	
13		L!DL_UdatRqImmassRej START T_dly(C_T_Wait)	ImmAssRej(TCV_agch, ImmAsgnRej_03(TCV_Rqr.ra, TCV_Rqr.fn))		3.
		test2			
14		?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1))			
16		+gsmOrDcs			4.
17		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_04)		5.
18		L?DL_RacInChRq(TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 3, 0))	ChReq(ChRequest_02)		
19	L_0186	L?DL_RacInChRq(TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 4, 0))	ChReq(ChRequest_02)	(P)	
20		L!DL_UdatRqImmassRej START T_dly(C_T_Wait)	ImmAssRej(TCV_agch, ImmAsgnRej_03(TCV_Rqr.ra, TCV_Rqr.fn))		3.
		test3			
21		?TIMEOUT T_dly			
22		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11, 1))			
23		+gsmOrDcs1			6.
24		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r05)		7.
25		+ltree_chreq			
		test4			
26		?TIMEOUT T_dly			
27		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
28		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_01)		8.
29		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r06)		9.
30		+ltree_chreq			
		test5			
31		?TIMEOUT T_dly			
32		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
33		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_02)		8.
34		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		10.
35		+ltree_chreq			
36		?TIMEOUT T_dly			
		ltree_chreq			
37		L?DL_RacInChRq	ChReq(ChRequest_02)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
38	L_0187	L?DL_RacInChRq(TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)	(P)	
39		L!DL_UdatRqImmassRej START T_dly(C_T_Wait)	ImmAssRej(TCV_agch, ImmAsgnRej_03(TCV_Rqr.ra, TCV_Rqr.fn))		
		gsmOrDcs			
40		[(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]			
41		L!DL_UdatRqImmass_sp	ImmAssSp(TCV_PgCh, TCV_Pgg, ImmAsgn_nfh(TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn, C_extended_paging))		4.
42		[TSPX_CcchConf3 = C_cch_1Comb]			
43		L!DL_UdatRqImmass_sp	ImmAssSp(TCV_PgCh, TCV_Pgg, ImmAsgn_nfh(TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_Tchtype, TCV_slot, TCV_tsc, TimingAdv(30), TCV_chdescr_arfcn, C_extended_paging))		4.
44	L_0188	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I	
		gsmOrDcs1			
45		[(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]			
46		L!DL_UdatRqImmassx_sp	ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_01(TCV_Rqr9.ra, TCV_Rqr9.fn, TSPX_SDCCH8SubDef, TSPX_SDCCH8SubA, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		6.
47		[TSPX_CcchConf3 = C_cch_1Comb]			
48		L!DL_UdatRqImmassx_sp	ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_r03(TCV_Rqr9.ra, TCV_Rqr9.fn, TSPX_SDCCH4SubB, TSPX_SDCCH4SubA, TCV_slot, TCV_tsc, TimingAdv(30), TCV_chdescr_arfcn))		6.
49	L_0189	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I	
		ltree_sdcch			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
50		[(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]			
51		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3−2), 3))			
52		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
53		[TSPC_PGSM OR TSPC_EGSM]			
54		(TCV_tch_arfcn:= C_arfcn_tchA)			
55		[TSPC_DCS]			
56		(TCV_tch_arfcn:= C_arfcn_tchAd)			
57		[TSPX_CcchConf3 = C_cch_1Comb]			
58		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubB)), 5))			
59	L_0190	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I	

Detailed Comments :

1.Tx−integer = 5, Max−Retrans = 2.
2.To send PAGING REQUEST TYPE 1 message with normal page mode in the next but one paging subblock on the same CCCH as previous paging message.
3.The page mode = normal paging, wait time = 5 seconds.
4.The page mode = "extended paging", request reference is different from any one already sent by the MS.
5.The page mode = "same as before", address the MS by TMSI, in the next but one paging subblock on the same CCCH.
6.The page mode = "extended paging", request reference is different from any one already sent by the MS. The ImmAsgnX message is sent on the MS paging channel.
7.The page mode = "extended paging", address the MS by TMSI, in the next but one paging subblock on the same CCCH.
8. Extended paging, not address the MS.
9. The page mode = "same as before", address the MS with IMSI.
10. normal paging, address the MS by IMSI.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_3_1

Group : RR/

Purpose : To test that the MS correctly determines its new paging subchannel when the CCCH structure is changed from non−combined to combined and when the number of CCCHs is changed.

Configuration :

Default : OtherEventsFail

Comments : The configuration is Max−Retrans = 2, 1 non−combined CCCH/BCCH, BS−AG−BLKS−RES and, BS−PA−MFRMS are controlled by PIXIT parameters.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		[(TSPX_PAMFRMS1 <=8) AND (TSPX_PAMFRMS1 >= 2)]			6.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(TSPX_TimadvB), INT_TO_BIT(TSPX_AGBLKS1, 3), C_cch_1nonComb, INT_TO_BIT((TSPX_PAMFRMS1−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+test1			
5		+test2			
6		+test3(’001’B)			
7		+secondexec			
8	L_0191	[(TSPX_PAMFRMS1 > 8) OR (TSPX_PAMFRMS1 < 2)]		I	6.
		secondexec			
9		+PreEnterIdleState_r02(C_Immass, TCV_slot, TCV_tsc, C_TxInt_5, C_Max_2, C_S2, C_S4, C_S6, TimingAdv(TSPX_TimadvB), C_ATT_0, INT_TO_BIT(TSPX_AGBLKS1, 3), C_cch_1nonComb, INT_TO_BIT((TSPX_PAMFRMS1 − 2), 3), C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			1.
10		+ltree_waitSelectPaging			
11		+test1			
12		+test2			
13		+test3(’010’B)			
		test1			
14		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_BfReOcc))			
15		L!DL_UdatRqImmassx_sp	ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_03(TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)		3.
17		+ltree_chreq			
		test2			
18		(TCV_Null := OM_PgFill(C_CellA, PgReqTp1Reorg))			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, INT_TO_BIT(TSPX_PgSubch, 8), PgReqTp2_03)		4.
21		+ltree_chreq			
		test3(cch_con : B_3)			
22		START T_dly(1000)			Ensure having sent ImmAss Rej_01
23		?TIMEOUT T_dly			
24		+PreEnterIdleState_r02(C_Immass, TCV_slot, TCV_tsc, C_TxInt_5, C_Max_2, C_S2, C_S4, C_S6, TimingAdv(TSPX_TimadvB), C_ATT_0, C_BABR_2, cch_con, C_BPM_7, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)			
25		+ltree_waitSelectPaging			
26		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		5.
27		+ltree_chreq			
28		?TIMEOUT T_dly			
29		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)		5.
30		+ltree_chreq			
31		?TIMEOUT T_dly			
		ltree_chreq			
32		L?DL_RacInChRq	ChReq(ChRequest_02)		
33	L_0192	L?DL_RacInChRq(TCV_Rqr.ra := DL_RacInChRq.msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)	(P)	
34		L!DL_UdatRqImmassRej START T_dly(C_T_Wait)	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rqr.ra, TCV_Rqr.fn))		5s wait
		ltree_waitSelectPaging			
35		(TCV_Null := OM_PgFill(C_CellA, PgReqTp1Reorg))			
36		START T_dly(C_T_Wait)			5s wait
37		+CCCH_group_Paging_group(TCV_Ccd0A, TSPX_IMSI)			
38		+SelectPagingCh(C_CellA)			
39		?TIMEOUT T_dly			
40		(TCV_Null := OM_PgFill(C_CellA, PgReqTp1Norm))			
41		START T_dly(3000)			3s wait

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
42		?TIMEOUT T_dly			

Detailed Comments :
1. Tx−integer = 5, Max−Retrans = 2 and CCCH−CONF = "1 basic physical channel used for CCCH not combined with SDCCHs", BS−AG−BLKS−RES and BS−PA−MFRMS are from PIXIT.
2. Page mode = "paging reorgnisation", not address the MS.
3. Paging mode = "normal", address the MS by TMSI.
4. Page mode = "paging reorgnisation", address the MS.
5. Paging mode = "normal", address the MS by TMSI.
6. BS−PA−MFRMS shall not be set to 9 for this test case.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_3_2

Group : RR/

Purpose : To test that the MS is operating in the "paging reorganisation" page mode when this is ordered by the SS and the MS is paged in its former access grant channel.

Configuration :

Default : OtherEventsFail

Comments : The configuration is Max−Retrans = 1, CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are controlled by PIXIT parameters with the constraint that BS−AG−BLKS−RES > 0.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		[((TSPX_CcchConf2 = C_cch_1nonComb) OR (TSPX_CcchConf2 = C_cch_2nonComb) OR (TSPX_CcchConf2 = C_cch_3nonComb) OR (TSPX_CcchConf2 = C_cch_4nonComb)) AND(TSPX_AGBLKS2 > 0) AND(TSPX_AGBLKS2 < 8) OR (TSPX_CcchConf2 = C_cch_1Comb) AND(TSPX_AGBLKS2 > 0) AND(TSPX_AGBLKS2 < 3)]			4.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(TSPX_TimadvB), INT_TO_BIT(TSPX_AGBLKS2, 3), TSPX_CcchConf2, INT_TO_BIT((TSPX_PAMFRMS2−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_FmrAGB))			
5		[(TSPX_CcchConf2 = C_cch_1nonComb) OR (TSPX_CcchConf2 = C_cch_2nonComb) OR (TSPX_CcchConf2 = C_cch_3nonComb) OR (TSPX_CcchConf2 = C_cch_4nonComb)]			
6		L!DL_UdatRqImmassx_sp	ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_04(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))		
7		+localtree			
8		[TSPX_CcchConf2 = C_cch_1Comb]			
9		L!DL_UdatRqImmassx_sp	ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_02(TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))		
10		+localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11	L_0193	[(TSPX_CcchConf2 = C_cch_2Comb) OR (TSPX_CcchConf2 = C_cch_3Comb) OR (TSPX_CcchConf2 = C_cch_4Comb)]		I	Reserved
12	L_0194	[(((TSPX_CcchConf2 = C_cch_1nonComb) OR (TSPX_CcchConf2 = C_cch_2nonComb) OR (TSPX_CcchConf2 = C_cch_3nonComb) OR (TSPX_CcchConf2 = C_cch_4nonComb)) AND(TSPX_AGBLKS2 > 7)) OR ((TSPX_CcchConf2 = C_cch_1Comb) AND(TSPX_AGBLKS2 > 2)) OR (TSPX_AGBLKS2 < 1)]		I	4.
		localtree			
13		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)		3.
14		L?DL_RacInChRq	ChReq(ChRequest_02)		
15	L_0195	L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)	(P)	
16		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rqr.ra, TCV_Rqr.fn))		

Detailed Comments :
1. Tx−integer = 5, Max−Retrans = 1 and CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are controlled by PIXIT parameters.
2. paging reorgnisation.
3. send in former access grant block.
4. BS−AG−BLKs−RES > 0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_4

Group : RR/

Purpose : To test that the MS remembers the page mode from the previous paging request message.

Configuration :

Default : OtherEventsFail

Comments : The configuration is Tx−integer = 5, Max−Retrans = 2 and CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are from PIXIT paramerters.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3	body	(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
4		L!DL_UdatRqImmassRej_sp	ImmAssRejSp(TCV_PgCh, TCV_Pgg, ImmAsgnRej_r04)		2.
5		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_03)		3.
6		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
7		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_02)		4.
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_07)		5.
9		L?DL_RacInChRq	ChReq(ChRequest_17)		
10	L_0196	L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)	(P)	
11		L!DL_UdatRqImmassRej	ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rqr.ra, TCV_Rqr.fn))		

Detailed Comments :
1. Tx−integer = 5, Max−Retrans = 2 and CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are from PIXIT paramerters.
2. extended paging mode.
3. not address the MS.
4. paging mode = "same as before", not address the MS,sent in the next paging subblock on the MS’s specific paging subchannel.
5. paging mode = "paging reorgnisation", address the MS, sent in the next but one paging subblock.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_2_5

Group : RR/

Purpose : 1) To test that the MS is able to determine its CCCH group and paging group correctly in the case of a CCCH configuration on more than one timeslot when it is paged on a timeslot other than 0. The MS is addressed with a PAGING REQUEST TYPE 1 message when the page mode is set to normal paging. The MS is paged with its IMSI in the 1st Mobile Identity field, the optional Mobile Identity field being not present, is the only way of addressing tested.
2) To test that in such conditions the MS answers to the paging message on the timeslot on which the paging message was sent.

Configuration :

Default : OtherEventsFail

Comments : The configuration is Tx−integer = 5, Max−Retrans = 1 and CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are from PIXIT paramerters.
((IMSI mod 10000) mod (cc * (9 − bsagres) * bspamfrms)) > (9 − bsagres) * bspamfrms) must be true for this test
When the CCCHs that are not on timeslot zero are set, the SYNC channel must not be started on them. The SYNC channel is used by mobiles to identify TS zero. (the FCCH is supposed to be excluded as well)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		[(TSPX_CcchConf4 = C_cch_2nonComb) OR (TSPX_CcchConf4 = C_cch_3nonComb) OR (TSPX_CcchConf4 = C_cch_4nonComb)]			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS4, 3), TSPX_CcchConf4, INT_TO_BIT((TSPX_PAMFRMS4−2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	L_1064	[TCV_Ccchg <= 0]		I	wrong combination of PIXIT values − see 11.10−1
5		[C_Yes]			TCV_Ccchg > 0
6		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubF, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS4, 3), TSPX_CcchConf4, INT_TO_BIT((TSPX_PAMFRMS4−2), 3))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		2.
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01(TCV_RaCh, ChRequest_12)		3.
10		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
11		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubF, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
12	L_0197	L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_r02)	(P)	
13		ACTIVATE(OtherEventsFail)			Restore Normal default
14		+PostMainLinkRel(TCV_ch)			
15	L_0198	[C_Yes]		I	Finish test immediately as wrong cell control channel type

Detailed Comments : 1. Tx−integer = 5, Max−Retrans = 1 CCCH−CONF, BS−AG−BLKS−RES and BS−PA−MFRMS are from PIXIT parameters.
2. The first mobile identifier addresses the MS, the 2nd is omitted.
3. To assign TSPX_SDCCH8SubF subchannel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_3_1

Group : RR/

Purpose : To test that, when the SS gives absolutely no information about neighbouring cells, the MS does not report on neighbouring cells..

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_20, BcchFreqLst_Omit, BcchFreqLst_50, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartMultiCells_02(BcchFreqLst_20, BcchFreqLst_50, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1)			1.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
7	body	(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
8	L_0199	L?DL_UdatInMsrRpt	MsrRept(MsrReport_01)	(P)	
9		START T_dly1(960)			960 ms
10	L_0200	?TIMEOUT T_dly1		(F)	2.
11		+PostMainLinkRel(TCV_chTch)			
12	L_0201	L?DL_UdatInMsrRpt	MsrRept(MsrReport_01)	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
14		+PostMainLinkRel(TCV_chTch)			
15		+local_execution2			
		local_execution2			
16		+local_SysInfo5and6Sending			1.
17		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
18		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
19		L?DL_UdatInMsrRpt	MsrRept(MsrReport_01)		
20		START T_dly1(960)			960 ms
21	L_0202	?TIMEOUT T_dly1		(F)	2.
22		+PostMainLinkRel(TCV_chTch)			
23	L_0203	L?DL_UdatInMsrRpt	MsrRept(MsrReport_01)	(P)	
24		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
25		+PostMainLinkRel(TCV_chTch)			
		local_SysInfo5and6Sending			
26		+Wait(C_T_Wait1)			
27		[TSPC_PGSM OR TSPC_EGSM]			
28		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_24))		
29		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_26))		
30		[TSPC_DCS]			
31		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_25))		
32		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_25))		
33		L!DL_UdatRqSysinfo6 (DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)	SysInfo6(TCV_sacch, SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		

Detailed Comments : 1. No channels listed in the neighbour cells description.
2. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_3_2

Group : RR/

Purpose : To test that, when the SS gives information about neighbouring cells, the MS reports appropriate results.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)			
3		+IdleUpdated(C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_21, BcchFreqLst_Omit, BcchFreqLst_27, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartMultiCells_02(BcchFreqLst_21, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6	body	+local_execution(1, 2)			
7		+local_SendSyInfo5and6			
8		+local_execution(1, 3)			
		local_execution(indx1, indx2 : INTEGER)			
9		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
10		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
11		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03)		
12		+ChkMsrmntRpt(indx1, indx2)			
13		START T_dly1(960)			960 ms
14	L_0204	?TIMEOUT T_dly1		(F)	1.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+PostMainLinkRel(TCV_chTch)			
16		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03)		
17		+ChkMsrmntRpt(indx1, indx2)			
18		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
19		+PostMainLinkRel(TCV_chTch)			
		local_SendSyInfo5and6			
20		+Wait(C_T_Wait1)			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_28))		
23		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_30))		
24		[TSPC_DCS]			
25		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_29))		
26		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_31))		
27		L!DL_UdatRqSysinfo6 (DL_UdatRqSysinfo6.msg.co.pwrc := ’1’B)	SysInfo6(TCV_sacch, SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		
Detailed Comments : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_3_3

Group : RR/

Purpose : To test that, when a combination of normal neighbours, barred cells and non−permitted NCCs is "on air", the MS reports only on normal neighbours.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		+IdleUpdated(C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_22, BcchFreqLst_Omit, BcchFreqLst_32, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartMultiCells_02(BcchFreqLst_22, BcchFreqLst_32, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
7		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
8		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_04)		
9		+ChkMsrmntRpt(4, 5)			
10		START T_dly1(960)			960 ms
11	L_0205	?TIMEOUT T_dly1		(F)	1.
12		+PostMainLinkRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_04)		
14		+ChkMsrmntRpt(4, 5)			
15		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
16		+PostMainLinkRel(TCV_chTch)			
17		+local_execution2			
		local_execution2			
18		+local_SendSysinfo5and6			
19		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
20		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
21		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_04)		
22		+ChkMsrmntRpt(4, 5)			
23		START T_dly1(960)			960 ms
24	L_0206	?TIMEOUT T_dly1		(F)	1.
25		+PostMainLinkRel(TCV_chTch)			
26		L?DL_UdatInMsrRpt(TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_04)		
27		+ChkMsrmntRpt(4, 5)			
28		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
29		+PostMainLinkRel(TCV_chTch)			
		local_SendSysinfo5and6			
30		+Wait(C_T_Wait1)			
31		[TSPC_PGSM OR TSPC_EGSM]			
32		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_33))		
33		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_30))		
34		[TSPC_DCS]			
35		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_34))		
36		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_34d))		
37		L!DL_UdatRqSysinfo6 (DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)	SysInfo6(TCV_sacch, SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_NCCP_2))		

Detailed Comments : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_3_4

Group : RR/

Purpose : To test that, in the case of the MS using DTX and the SS indicating that power control is in use, the MS reports appropriate results

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcJ, TSPX_MTChRateJ)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(73, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellH, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_11, CellChDes_11d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC_1, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnH, C_arfcnHd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			Cell N7
5		+StartMultiCells_03(BcchFreqLst_01, BcchFreqLst_48, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1)			
6		(TCV_chTch1 := C_FACCHF_A_1, TCV_sysinfo6.co.sprb := ’1’B, TCV_sysinfo6_B.co.sprb := ’1’B)			DTXindicator = ’101’B
7		+FullRateCh_A_1(C_Synho, TSPX_TmSltDef, TSPX_TscDef, TCV_ChMod, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		+CCConfigTCH_B(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltC, TSPX_TscC, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), C_Noarfcn, C_Noarfcn)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubDef, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltC, TSPX_TscC, TSPX_TCHHSubDef, TCV_ChRate)			
10		+local_HndovCmd			
11		+local_RcvHndovAcc			
12		L?DL_EstIn	DLEstInd(TCV_chTch1)		
13		L?DL_DatInHoCom	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)		
14		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
15		+local_continue1			
		local_continue1			
16		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
17		[NOT TSPC_TranspDataOnly]			
18	body	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_05)		
19		+ChkMsrmntRpt(6, 7)			
20		START T_dly1(960)			960 ms
21	L_0207	?TIMEOUT T_dly1		(F)	1.
22		+PostMainLinkRel(TCV_chTch)			
23		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_05)		
24		+ChkMsrmntRpt(6, 7)			
25		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
26		+PostMainLinkRel(TCV_chTch)			
27		+local_execution2			
28		[TSPC_TranspDataOnly]			
29		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_06)		
30		+ChkMsrmntRpt(6, 7)			
31		START T_dly1(960)			960 ms
32	L_0208	?TIMEOUT T_dly1		(F)	1.
33		+PostMainLinkRel(TCV_chTch)			
34		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_06)		
35		+ChkMsrmntRpt(6, 7)			
36		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
37		+PostMainLinkRel(TCV_chTch)			
38		+local_execution2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_execution2			
39		+local_SendSysInfo5and6			
40		START T_dly(20000)			2.
41		?TIMEOUT T_dly			
42		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
43		+local_HndovCmd			
44		+local_RcvHndovAcc			
45		L?DL_EstIn	DLEstInd(TCV_chTch1)		
46		L?DL_DatInHoCom	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)		
47		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
48		+local_continue2			
		local_continue2			
49		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
50		[NOT TSPC_TranspDataOnly]			
51		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_05)		
52		+ChkMsrmntRpt(6, 7)			
53		START T_dly1(960)			960 ms
54	L_0209	?TIMEOUT T_dly1		(F)	1.
55		+PostMainLinkRel(TCV_chTch)			
56		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_05)		
57		+ChkMsrmntRpt(6, 7)			
58		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
59		+PostMainLinkRel(TCV_chTch)			
60		+local_execution2			
61		[TSPC_TranspDataOnly]			
62		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_06)		
63		+ChkMsrmntRpt(6, 7)			
64		START T_dly1(960)			960 ms
65	L_0210	?TIMEOUT T_dly1		(F)	1.
66		+PostMainLinkRel(TCV_chTch)			
67		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_06)		
68		+ChkMsrmntRpt(6, 7)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
69		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
70		+PostMainLinkRel(TCV_chTch)			
		local_RcvHndovAcc			
71		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
72		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
73		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
74		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
		local_HndovCmd			
75		(TCV_Tchtype := ’00001’B)			
76		[TSPC_PGSM OR TSPC_EGSM]			
77		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC_3, C_arfcn_2, C_arfcn_tchA, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
78		[TSPC_DCS]			
79		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC_3, C_arfcnAd_2, C_arfcn_tchAd, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
		local_SendSysInfo5and6			
80		[TSPC_PGSM OR TSPC_EGSM]			
81		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_36))		SysInfo 1, 2, 3, 4, 6 as before
82		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_26))		
83		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
84		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_29))		SysInfo 1, 2, 3, 4, 6 as before
85		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_51))		
Detailed Comments : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail. 2. To allow the MS camp in cell H again.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_3_5

Group : RR/

Purpose : To test that when the SS gives information about neighbouring cells the MS reports appreprate results.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcH, TSPX_MTChRateH)			
3		+IdleUpdated(C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_37, BcchFreqLst_Omit, BcchFreqLst_38, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_3, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellB(28, 8, 815, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_05, CellChDes_05d, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_5, C_NCC)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+local_SysInfo5bisSending			
7	body	+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
8		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
9		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
10		+ChkMsrmntRpt(8, 9)			
11		+local_continue			
		local_continue			
12		START T_dly1(960)			960 ms

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_0211	?TIMEOUT T_dly1		(F)	1.
14		+PostMainLinkRel(TCV_chTch)			
15		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
16		+ChkMsrmntRpt(8, 9)			
17		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
18		+PostMainLinkRel(TCV_chTch)			
19		+local_execution2			
		local_execution2			
20		+local_SysInfo5and6Sending(BcchFreqLst_41, BcchFreqLst_39, BcchFreqLst_42)			1.
21		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
22		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
23		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
24		+ChkMsrmntRpt(8, 9)			
25		START T_dly1(960)			960 ms
26	L_0212	?TIMEOUT T_dly1		(F)	1.
27		+PostMainLinkRel(TCV_chTch)			
28		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
29		+ChkMsrmntRpt(8, 9)			
30		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
31		+PostMainLinkRel(TCV_chTch)			
32		+local_execution3			
		local_execution3			
33		+local_SysInfo5and6Sending(BcchFreqLst_43, BcchFreqLst_40, BcchFreqLst_44)			1.
34		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
35		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
36		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
37		+ChkMsrmntRpt(8, 10)			
38		START T_dly1(960)			960 ms

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
39	L_0213	?TIMEOUT T_dly1		(F)	1.
40		+PostMainLinkRel(TCV_chTch)			
41		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_07)		
42		+ChkMsrmntRpt(8, 10)			
43		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
44		+PostMainLinkRel(TCV_chTch)			
		local_SysInfo5and6Sending(ba1, ba2, ba3 :NCD)			
45		+Wait(C_T_Wait1)			
46		[TSPC_PGSM OR TSPC_EGSM]			
47		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(ba1))		
48		[TSPC_DCS]			
49		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(ba2))		
50		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(ba3))		
51		L!DL_UdatRqSysinfo6	SysInfo6(TCV_sacch, SysInf6(C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_06, C_NCCP_2))		
		local_SysInfo5bisSending			
52		[TSPC_PGSM OR TSPC_EGSM]			
53		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_38))		
54		[TSPC_DCS]			
55		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_37))		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_4_1

Group : RR/

Purpose : 1. To verify that upon receipt of an ASSIGNMENT COMMAND, the MS switches to the channel defined in the ASSIGNMENT COMMAND, establishes the link and sends an ASSIGNMENT COMPLETE message. This is tested for an MS supporting TCH in the special cases of a transition

1.1 from non−hopping SDCCH to hopping TCH/F using a different timeslot
1.2 from hopping TCH/F to non−hopping TCH/F using a different timeslot
1.3 from non−hopping TCH/F to non−hopping TCH/F using a different timeslot
1.4 from non−hopping TCH/F to hopping TCH/H using a different timeslot; this test purpose is only applicable if the MS supports TCH/H
1.5 from hopping TCH/H to non−hopping TCH/H using a different timeslot; this test purpose is only applicable if the MS supports TCH/H
1.6 from non−hopping TCH/H to hopping TCH/F using a different timeslot; this test purpose is only applicable if the MS supports TCH/H.

2. To verify that an MS supporting TCH, having sent an MM− or CM message which was not acknowledged on L2 before the channel assignment procedure was initiated and before the MS has left the old channel, repeats that message after completion of the assignment procedure without incrementing N(SD). This is tested in the special case of MM message AUTHENTICATION RESPONSE.

3. To verify that, if an MS supporting TCH has received an ASSIGNMENT COMMAND message which contains only the description of a channel to be used after the starting time, and if the starting time has not already elapsed, the mobile station shall wait up to the starting time before accessing the channel.

4. To verify that an MS supporting TCH, having received an ASSIGNMENT COMMAND, having sent an SABM frame to establish the main signalling link on the assigned channel, reports the power level specified in the ASSIGNMENT COMMAND message, in the uplink SACCH L1 header of the SACCH message sent in the SACCH period following the transmission of the SABM frame.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_05, CellChDes_15, CellChDes_15d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Ass, TSPX_TmSltNotZero, TSPX_TscDef, ChMod_sign, FreqBCCH(C_arfcnA), FreqBCCH(C_arfcnAd_4), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
4		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		+ltree_ImmAss			
7		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
8		+localtree1			
9		+localtree2			
10		[NOT TSPC_DualRate]			
11		+PostMainLinkRel(TCV_chTch1)			
12		[TSPC_DualRate]			
13		+gofurther			
		localtree1			
14		+ltree_Asgn1			
15		+ltree_AssCh_complete1(TCV_ch, TCV_chTch, TCV_AssCmd)			
16		+ltree_Asgn2			
17		+ltree_AssCh_complete(TCV_chTch, TCV_chTch1, TCV_AssCmd)			
		localtree2			
18		(TCV_Null :=OM_NoL2Ack(1, TCV_chTch1))			
19		L!DL_DatRqAuthRq	AuthReq(TCV_chTch1, AuthRequest(TSPX_CKSNDef, TSPX_RANDDef))		
20		L?DL_DatInAuthRes (TCV_Mt := DL_DatInAuthRes.msg.mt)	AuthRes(AuthResponse)		
21		+ltree_Asgn3			
22		+ltree_AssCh_complete(TCV_chTch1, TCV_chTch, TCV_AssCmd)			
23		L?DL_DatInAuthRes (TCV_Mt1 := DL_DatInAuthRes.msg.mt)	AuthRes(AuthResponse)		
24		+SendSeqNo_chk			
25		+ltree_Asgn4			
26		+ltree_AssCh_complete4(TCV_chTch, TCV_chTch1, TCV_AssCmd)			
		gofurther			
27		+ltree_Asgn5			
28		+ltree_AssCh_complete(TCV_chTch1, TCV_chTch, TCV_AssCmd)			
29		L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_01('0010'B))		
30		L?DL_DatInIdRes	IDRes(IDResponse_01)		
31		+ltree_Asgn6			
32		+ltree_AssCh_complete(TCV_chTch, TCV_chTch1, TCV_AssCmd)			
33		+ltree_Asgn7			
34		+ltree_AssCh_complete(TCV_chTch1, TCV_chTch, TCV_AssCmd)			
35		+PostMainLinkRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_AssCh_complete(oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU)			
36		L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
37	L_1054	?TIMEOUT T_dlyAss		(F)	
38		+PostLinkRelEnd(oldch)			
39		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(newch)		
40		(TCV_Fn := OM_ReturnFn(oldch))			
41		L?DL_DatInAssCom (TCV_Fn1 := DL_DatInAssCom.fn)	AssCmp(newch, AsgnCmp_02)		
42		L!MDL_RelRq	MDLRelReq(oldch)		
43		+Check_Time (C_T_AssCmd)			
		ltree_AssCh_complete1(oldch,newch:LOGICCH; pdu_ass: ASS_CMD_PDU)			
44		L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
45	L_1055	?TIMEOUT T_dlyAss		(F)	
46		+PostLinkRelEnd(oldch)			
47		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(newch)		
48		(TCV_Fn:=OM_ReturnFn(oldch), TCV_L1Head:=OM_GetL1Hd(TCV_sacchTch))			
49		L?DL_DatInAssCom (TCV_Fn1 := DL_DatInAssCom.fn)	AssCmp(newch, AsgnCmp_02)		
50		L!MDL_RelRq	MDLRelReq(oldch)		
51		+Check_Time(C_T_AssCmd)			
52	L_0214	[TCV_L1Head.mspwrlvl<>'00111'B]		(F)	
53	L_0215	[TCV_L1Head.mspwrlvl='00111'B]		(P)	
		ltree_AssCh_complete4(oldch,newch:LOGICCH; pdu_ass: ASS_CMD_PDU)			
54		L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
55	L_1060	?TIMEOUT T_dlyAss		(F)	
56		+PostLinkRelEnd(oldch)			
57		L?DL_EstIn (TCV_Fn1 := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(newch)		
58		L?DL_DatInAssCom	AssCmp(newch, AsgnCmp_02)		
59		L!MDL_RelRq	MDLRelReq(oldch)		
60		+FnArith(TCV_Fn,TCV_Fn1)			
61	L_1056	[NOT (TCV_Positive)]		(F)	
62	L_1057	[TCV_Positive]		(P)	
63		L?DL_UdatIn (TCV_Fn1 := DL_UdatIn.fn)	DLUdatInd(newch)		
64		L?DL_EstIn	DLEstInd(newch)		
65		L?DL_DatInAssCom	AssCmp(newch, AsgnCmp_02)		
66		L!MDL_RelRq	MDLRelReq(oldch)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
67		+FnArith(TCV_Fn, TCV_Fn1)			
68	L_1058	[NOT (TCV_Positive)]		(F)	
69	L_1059	[TCV_Positive]		(P)	
		ltree_ImmAss			
70		[TSPC_PGSM OR TSPC_EGSM]			
71		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_sdcch8(TCV_Rr, TCV_Fn, TSPX_TmSltNotZero, TSPX_TscDef, TSPX_SDCCH8SubDef, C_arfcnA, TimingAdv(30)))		
72		[TSPC_DCS]			
73		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_sdcch8(TCV_Rr, TCV_Fn, TSPX_TmSltDef, TSPX_TscDef, TSPX_SDCCH8SubDef, C_arfcnAd_4, TimingAdv(30)))		
		ltree_Asgn1			
74		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) + 1) MOD 8), 3))			
75		[TSPC_PGSM OR TSPC_EGSM]			
76		+Config_FACCHF_A_1(C_E_default, 7, ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa3, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
77		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
78		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 7, ’000001’B, ’000001’B, Frql_omit, CellChDes_Omit, ChMod_sign_iei, MoblAllc_r01, CphMod_omit))			
79		[TSPC_DCS]			
80		+Config_FACCHF_A_1(C_E_default, 7, ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa8, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
81		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
82		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 7, ’000001’B, ’000001’B, Frql_omit, CellChDes_Omit, ChMod_sign_iei, MoblAllc_r01, CphMod_omit))			
		ltree_Asgn2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
83		(TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1 := C_SACCHF_A_2, TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) + 3) MOD 8), 3))			
84		+ltree_ZeroCheck			
85		[TSPC_PGSM OR TSPC_EGSM]			
86		+Config_FACCHF_A_2(C_E_default, 16, ChMod(TSPX_modF), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcnA), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
87		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
88		(TCV_AssCmd := AsgnCmd_nfh('00001'B, TCV_slt2, TSPX_TscDef, 16, C_arfcnA, CellChDes_r03, ChMod_iei(TSPX_modF), StartingTm_omit, CphMod_omit))			
89		[TSPC_DCS]			
90		+Config_FACCHF_A_2(C_E_default, 12, ChMod(TSPX_modF), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcnAd_4), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
91		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
92		(TCV_AssCmd := AsgnCmd_nfh('00001'B, TCV_slt2, TSPX_TscDef, 12, C_arfcnAd_4, CellChDes_r01, ChMod_iei(TSPX_modF), StartingTm_omit, CphMod_omit))			
		ltree_Asgn3			
93		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) + 4) MOD 8), 3))			
94		[TSPC_PGSM OR TSPC_EGSM]			
95		+Config_FACCHF_A_1(C_E_default, 9, ChMod(TSPX_modF), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa7, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
96		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
97		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 9, '000011'B, '001000'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_r02, CphMod_omit))			
98		[TSPC_DCS]			
99		+Config_FACCHF_A_1(C_E_default, 9, ChMod_speech, C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa6, C_TCHF_ACCHF_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
100		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
101		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 9, ’000011’B, ’001000’B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_r04, CphMod_omit))			
		ltree_Asgn4			
102		(TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1 := C_SACCHF_A_2, TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) + 5) MOD 8), 3), TCV_Fn := OM_ComingFn(TCV_chTch), TCV_Fn1 := OC_FnInc(TCV_Fn, 100), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn), TCV_Fn:=TCV_Fn1)			
103		[TSPC_PGSM OR TSPC_EGSM]			
104		+Config_FACCHF_A_2(C_E_default, 14, ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcn_10), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
105		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
106		(TCV_AssCmd := AsgnCmd_nfh(’00001’B, TCV_slt2, TSPX_TscDef, 14, C_arfcn_10, CellChDes_Omit, ChMod_sign_iei, StartingTm_01(TCV_Fn1), CphMod_omit))			
107		[TSPC_DCS]			
108		+Config_FACCHF_A_2(C_E_default, 14, ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcnAd_5), C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
109		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
110		(TCV_AssCmd := AsgnCmd_nfh(’00001’B, TCV_slt2, TSPX_TscDef, 14, C_arfcnAd_5, CellChDes_Omit, ChMod_sign_iei, StartingTm_01(TCV_Fn1), CphMod_omit))			
		ltree_Asgn5			
111		(TCV_chTch := OC_SubchOfFacchh(TSPX_TCHHSubDef, C_CellA, 1), TCV_sacchTch := OC_SubchOfSacchh(TSPX_TCHHSubDef, C_CellA, 1), TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) +6) MOD 8), 3))			
112		[TSPC_PGSM OR TSPC_EGSM]			
113		+Config_FACCHH_A_1(C_E_default, 8, ChMod(TSPX_modH), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa9, C_TCHH_ACCHH_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
114		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
115		(TCV_AssCmd := AsgnCmd_tchh_fh(TSPX_TCHHSubDef, TCV_slt2, TSPX_TscDef, 8, '000101'B, '000000'B, Frql_08, CellChDes_Omit, ChMod_iei(TSPX_modH), MoblAllc_omit, CphMod_omit))			
116		[TSPC_DCS]			
117		+Config_FACCHH_A_1(C_E_default, 3, ChMod(TSPX_modH), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCHa5, C_TCHH_ACCHH_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
118		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
119		(TCV_AssCmd := AsgnCmd_tchh_fh(TSPX_TCHHSubDef, TCV_slt2, TSPX_TscDef, 3, '000101'B, '000000'B,Frql_09, CellChDes_Omit, ChMod_iei(TSPX_modH), MoblAllc_omit, CphMod_omit))			
		ltree_Asgn6			
120		(TCV_chTch1 := OC_SubchOfFacchh(TSPX_TCHHSubA, C_CellA, 2), TCV_sacchTch1 := OC_SubchOfSacchh(TSPX_TCHHSubDef, C_CellA, 2), TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) +7) MOD 8), 3))			
121		[TSPC_PGSM OR TSPC_EGSM]			
122		+Config_FACCHH_A_2(C_E_default, 12, ChMod(TSPX_modH), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcn_34), C_TCHH_ACCHH_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
123		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
124		(TCV_AssCmd := AsgnCmd_tchh_nfh (TSPX_TCHHSubA, TCV_slt2, TSPX_TscDef, 12, C_arfcn_34, CellChDes_Omit, ChMod_omit, StartingTm_omit))			
125		[TSPC_DCS]			
126		+Config_FACCHH_A_2(C_E_default, 9, ChMod(TSPX_modH), C_Ass, TCV_slt2, TSPX_TscDef, FreqTCH(C_arfcnAd_6), C_TCHH_ACCHH_2, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
127		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
128		(TCV_AssCmd := AsgnCmd_tchh_nfh (TSPX_TCHHSubA, TCV_slt2, TSPX_TscDef, 9, C_arfcnAd_6, CellChDes_Omit, ChMod_omit, StartingTm_omit))			
		ltree_Asgn7			
129		(TCV_slt2 := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltNotZero) + 1) MOD 8), 3))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
130		+FullRateCh_A_1_nociph(C_Ass, TCV_slt2, TSPX_TscDef, ChMod(TSPX_modH), FreqTCHa10, FreqTCHa4, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
131		[TSPC_PGSM OR TSPC_EGSM]			
132		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 19, '000000'B, '101000'B, Frql_omit, CellChDes_r04, ChMod_omit, MoblAllc_r03, CphMod_omit))			
133		[TSPC_DCS]			
134		(TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2, TSPX_TscDef, 15, '000000'B, '101000'B, Frql_omit, CellChDes_r02, ChMod_omit, MoblAllc_r03, CphMod_omit))			
		ltree_ZeroCheck			
135		[TCV_slt2 = '000'B]			3.
136		(TCV_slt2 := '111'B)			
137		[C_Yes]			

Detailed Comments : 1. Default parameters exept CA.
2. The time slot is TSPX_TmSltNotZero ('N'), the ARFCN is the BCCH carrier. 3. Test will fail if (N+3) MOD 8 = 0, so modify value if this is the case.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_4_2_1

Group : RR/

Purpose : To test that, when the MS fails to seize the new channel, the MS reactivates the old channel, reporting use of the last power level used on the old channel. This is tested in the special cases of a transition:

− from TCH/F to hopping TCH/F in state U10 if the MS supports TCH/F and call control

− from TCH/H to hopping TCH/H in state U10 if the MS supports TCH/H and call control

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcB, C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_Full)			1.
6	body	+localtree			
		localtree			
7		+AssCmdGen(TCV_cellid, C_Full, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
8		+AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)			
9		+localtree3			
10		+localtree1			
		localtree1			
11		[TSPC_DualRate]			
12		+Wait(C_T_Wait1)			
13		(TCV_CphKey := OC_CphKeyGen(TSPX_Ki, TSPX_RANDDef))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+HalfRateCh_A_1(TSPX_TCHHSubA, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
15		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_Half)			3.
16		+localtree2			
17		[TCV_CC AND (NOT TSPC_DualRate)]			
		localtree2			
18		+AssCmdGen(TCV_cellid, C_Half, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
19		+AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)			
20		+localtree3			
		localtree3			
21		(TCV_L1Head := OM_GetL1Hd(C_SACCHF_A_1))			
22		[TSPC_PGSM OR TSPC_EGSM]			
23	L_0221	[TCV_L1Head.mspwrlvl <> ’00111’B]		(F)	6.
24		+PostMainLinkRel(TCV_chTch)			
25	L_0222	[TCV_L1Head.mspwrlvl = ’00111’B]		(P)	
26		+PostMainLinkRel(TCV_chTch)			
27		[TSPC_DCS]			
28	L_0223	[TCV_L1Head.mspwrlvl <> ’00011’B]		(F)	6.
29		+PostMainLinkRel(TCV_chTch)			
30	L_0224	[TCV_L1Head.mspwrlvl = ’00011’B]		(P)	
31		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To set up a full rate non hopping call and power level = 7.
2. To assign a full rate hopping channel with power level = 9, but the channel is not activated.
3. To set up a half rate non hopping call and power level = 7.
4. To assign a half rate channel with power level = 9, but the channel is not activated.
5. The expected ASSIGNMENT FAILURE with " protocol error unspecified" received on the old channel.
6. The power level is not the old power level, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_4_2_2

Group : RR/

Purpose : To test that, when the MS fails to seize the new channel, the MS reactivates the old channel. This is tested in the special cases of a transition:
- from SDCCH to hopping TCH/F; this test part is only applicable if the MS supports TCH/F.
- from non−hopping SDCCH to hopping TCH/H; this test part is only applicable if the MS supports TCH/H.
- from hopping TCH/F to hopping TCH/H; this test part is only applicable if the MS supports TCH/H.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
5		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
6		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
7		+localtree			
		localtree			
8		(TCV_AssCmd := AsgnCmd_tchf_fh(C_S3, C_BCC, 7, '000000'B, '000100'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_04, CphMod_omit))			
9		+Adjust_gsmanddcs_powerlvl(7, 3)			
10		+AssCh_failure(TCV_ch, TCV_AssCmd, FALSE)			
11		[TCV_CC AND (NOT TSPC_DualRate)]			
12		+PostMainLinkRel(TCV_ch)			
13		[TSPC_DualRate]			
14		+localtree1			
15		[C_Yes]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree1			
16		(TCV_AssCmd := AsgnCmd_tchh_fh(’0’B, ’001’B, TSPX_TscDef, 7, ’000001’B, ’000110’B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_04, CphMod_omit))			
17		+Adjust_gsmanddcs_powerlvl(7, 3)			
18		+AssCh_failure(TCV_ch, TCV_AssCmd, FALSE)			
19		+FullRateCh_A_1_nociph(C_Ass, C_S3, C_BCC, ChMod_sign, Freq_rg8, Freq_rd8, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			4.
20		(TCV_AssCmd := AsgnCmd_tchf_fh(C_S3, C_BCC, 7, ’000000’B, ’000100’B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_04, CphMod_omit))			
21		+Adjust_gsmanddcs_powerlvl(7, 3)			
22		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
23		(TCV_AssCmd := AsgnCmd_tchh_fh(’0’B, ’001’B, TSPX_TscDef, 7, ’000001’B, ’000110’B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_04, CphMod_omit))			
24		+Adjust_gsmanddcs_powerlvl(7, 3)			
25		+AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)			
26		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. Default parameters: CCCH combined with SDCCH4, Tx−integer = 5, Max−retrans = 1.
2. To assign a TCH/F hopping channel which is not activated.
3. To assign a TCH/H hopping channel which is not activated.
4. To setup a physical channel as TCH/F hopping channel.
5. To assign the TCH/F hopping channel which is now activated.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_1

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION message from the SS. To test that the MS correctly handles the values of any Starting Time IE in the HANDOVER COMMAND message and the Timing Advance IE in the PHYSICAL INFORMATION message. To test that the MS activates the new channel correctly.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_asscmd_ts := TSPX_TmSltA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
3		+BasicServiceMT(TSPX_MTBscSvcI, TSPX_MTChRateI)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_201_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100)			frame number in cell B is 100 in advance of frame number in cell A.
6		+FullRateCh_A_1(C_Ass, TCV_asscmd_ts, TSPX_TscDef, TCV_ChMod, FreqTCH_omit, FreqTCH_omit, TSPX_TCHcarrierA_ho, TSPX_TCHcarrierA_hod, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		+Est_MT_CallNonFH(TimingAdv(20), C_Full, TSPX_TCHHSubDef, TSPX_RANDDef)			0.
8		(TCV_M := 1, TCV_ch := TCV_chTch)			
9	body	REPEAT local_handover UNTIL [TCV_M = 9]			
10		+ChanRel_end(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_handover			
11		(TCV_chTch1 := TCV_ch)			
12		+local_channel_config			
13		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
14		+local_send_hoCMD			
15		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(TCV_T))		1.
16		+RR_hocomp1(TCV_n, TCV_chTch1)			
17		+local_firstburst_ontime_CHK			
18		[(TCV_M = 3) AND (NOT TSPC_DualRate)]			
19		(TCV_M := 9)			
20		[C_Yes]			
21		(TCV_M := TCV_M + 1)			
		local_send_hoCMD			
22		[(TCV_M = 3) OR (TCV_M = 5)]			
23		(TCV_Fn := OM_ComingFn(TCV_chTch1), TCV_Null:= OM_SendNextOn(TCV_chTch1, TCV_Fn), TCV_Strt := OC_StartTime(TCV_Fn, (C_StartingTimeHO + 100), 1))			starting time is set to 1.1 s pluse 100 frames
24		L!DL_DatRqHoCmd(DL_DatRqHoCmd.msg.strt:= TCV_Strt)	HndOvSnd(TCV_chTch1, TCV_HoCMD)		
25		[C_Yes]			
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch1, TCV_HoCMD)		
		local_channel_config			
27		+local_ch_config			
28		(TCV_ch := TCV_chTch)			
		local_ch_config			
29		[TCV_M = 1]			2.
30		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccA, TCV_T := 20, TCV_Horf:= TSPX_HoRefA, TCV_ts := TSPX_TmSltB, TCV_tsc := TSPX_TscB, TCV_chtype := ’00001’B)			
31		+FullRateCh_B_1(C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
32		+local_set_arfcn_B			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		(TCV_HoCMD := HandOverCmd_nfh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
34		(TCV_sacchTch := C_SACCHF_A_1)			
35		(TCV_nc := ’010’B)			
36		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
37		[TCV_M = 2]			3.
38		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccB, TCV_T := TSPX_TimadvA, TCV_ts := TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefB, TCV_tsc := TSPX_TscC, TCV_chtype := ’00001’B)			
39		+FullRateCh_A_1(C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHa_hof1, FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn, TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
40		(TCV_nc := ’010’B)			
41		(TCV_sacchTch := C_SACCHF_B_1)			
42		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
43		+local_handover2			
44		[TCV_M = 3]			4.
45		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccC, TCV_T := 20, TCV_ts := TSPX_TmSltC, TCV_Horf:= TSPX_HoRefC, TCV_tsc := TSPX_TscC, TCV_chtype := ’00001’B)			
46		+FullRateCh_B_1(C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
47		+local_set_arfcn_B			
48		(TCV_nc := ’010’B)			
49		(TCV_sacchTch := C_SACCHF_A_1)			
50		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
51		(TCV_HoCMD := HandOverCmd_nfh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), TCV_ChMod, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
52		[TCV_M = 4]			5.
53		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccD, TCV_T := TSPX_TimadvB, TCV_ts := C_S0, TCV_Horf:= TSPX_HoRefD, TCV_tsc := TSPX_TscD, TCV_chtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubA)), 5))			
54		+HalfRateCh_A_1(TSPX_TCHHSubA, C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHa_hof4, FreqTCHa_hof4d, C_Noarfcn, C_Noarfcn, TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
55		(TCV_sacchTch1:=TCV_sacchTch)			get sacch from HalfRate Ch_A_1 ...
56		(TCV_nc := '010'B)			
57		(TCV_sacchTch := C_SACCHF_B_1)			
58		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
59		+local_handover4			
60		[TCV_M = 5]			6.
61		(TCV_n := 750, TCV_Cntref := TSPX_NoOfHoAccE, TCV_T := 20, TCV_ts := TSPX_TmSltNotZero1, TCV_Horf:= TSPX_HoRefE, TCV_tsc := TSPX_TscE, TCV_chtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
62		+HalfRateCh_B_1(TSPX_TCHHSubDef, C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHb_hof1, FreqTCHb_hof1d, TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
63		(TCV_sacchTch2:= TCV_sacchTch)			to hold sacch setting from halfrate B cell setup...
64		(TCV_sacchTch := TCV_sacchTch1)			
65		(TCV_nc := '010'B)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
66		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
67		+local_handover5			
68		[TCV_M = 6]			7.
69		(TCV_n := 750, TCV_Cntref := TSPX_NoOfHoAccF, TCV_T := 20, TCV_ts := TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefF, TCV_tsc := TSPX_TscF, TCV_chtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
70		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH_omit, FreqTCH_omit, TSPX_TCHcarrierA_ho, TSPX_TCHcarrierA_hod, TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1Comb, C_BPM_3)			
71		+local_set_arfcn_A			
72		(TCV_sacchTch1:=TCV_sacchTch)			
73		(TCV_sacchTch:=TCV_sacchTch2)			
74		(TCV_nc := ’010’B)			
75		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
76		+local_HoCMD_nofh			
77		[TCV_M = 7]			8.
78		(TCV_n := 750, TCV_Cntref := TSPX_NoOfHoAccD, TCV_T := TSPX_TimadvA, TCV_ts := TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefG, TCV_tsc := TSPX_TscG, TCV_chtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubA)), 5))			
79		+HalfRateCh_B_1(TSPX_TCHHSubA, C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHb_hof2, FreqTCHb_hof2d, TimingAdv(TSPX_TimadvA), C_BABR_0, C_cch_1Comb, C_BPM_3)			
80		(TCV_sacchTch2:=TCV_sacchTch)			
81		(TCV_sacchTch:=TCV_sacchTch1)			
82		(TCV_nc := ’010’B)			
83		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
84		+local_handover7			
85		[TCV_M = 8]			9.
86		(TCV_n := 500, TCV_Cntref := TSPX_NoOfHoAccA, TCV_T := TSPX_TimadvB, TCV_ts := TSPX_TmSltNotZero1, TCV_Horf:= TSPX_HoRefB, TCV_tsc := TSPX_TscB, TCV_chtype := ’00001’B)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
87		+FullRateCh_A_1(C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod, FreqTCH_omit, FreqTCH_omit, C_arfcnA, C_arfcnAd_4, TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb, C_BPM_3)			
88		+local_set_arfcn_A1			
89		(TCV_sacchTch:=TCV_sacchTch2)			
90		(TCV_nc := '010'B)			
91		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			
92		+local_HoCMD_nofh			
		local_set_arfcn_A			
93		[TSPC_PGSM OR TSPC_EGSM]			
94		(TCV_chdescr_arfcn := C_arfcnA, TCV_tch_arfcn := TSPX_TCHcarrierA_ho)			
95		[TSPC_DCS]			
96		(TCV_chdescr_arfcn := C_arfcnAd_4, TCV_tch_arfcn := TSPX_TCHcarrierA_hod)			
		local_set_arfcn_A1			
97		[TSPC_PGSM OR TSPC_EGSM]			
98		(TCV_chdescr_arfcn := C_arfcnA, TCV_tch_arfcn := C_arfcnA)			
99		[TSPC_DCS]			
100		(TCV_chdescr_arfcn := C_arfcnAd_4, TCV_tch_arfcn := C_arfcnAd_4)			
		local_set_arfcn_B			
101		[TSPC_PGSM OR TSPC_EGSM]			
102		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn := TSPX_TCHcarrierB_ho)			
103		[TSPC_DCS]			
104		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn := TSPX_TCHcarrierB_hod)			
		local_firstburst_ontime_CHK			
105		[(TCV_M = 3) OR (TCV_M = 5)]			
106		+FnArith(TCV_FnBurst, TCV_Strt.fn)			
107		[TCV_M = 3]			
108	L_0225	[(TCV_Time > 5) OR (TCV_Time < 0)]		(F)	10.
109	L_0226	[(TCV_Time >= 0) AND (TCV_Time <= 5)]		(P)	
110		[TCV_M = 5]			
111	L_0227	[(TCV_Time > 10) OR (TCV_Time < 0)]		(F)	10.
112	L_0228	[(TCV_Time >= 0) AND (TCV_Time <= 10)]		(P)	
113		[C_Yes]			
		local_handover2			
114		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
115		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnA, 12, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_22, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
116		[TSPC_DCS]			
117		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnAd_4, 9, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frqls_20_Ad, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
		local_handover4			
118		[TSPC_PGSM OR TSPC_EGSM]			
119		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnA, 16, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_20_A, ChMod_omit, Freqchseq_omit, MoblAllc_20_A1, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
120		[TSPC_DCS]			
121		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_arfcnAd_4, 16, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_202_Ad, ChMod_omit, Freqchseq_omit, MoblAllc_20_A1, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
		local_handover5			
122		[TSPC_PGSM OR TSPC_EGSM]			
123		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_BCCHcarrierB_ho, 12, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_20_B3, CellChDes_Omit, ChMod_omit, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
124		[TSPC_DCS]			
125		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_BCCHcarrierB_hod, 12, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_20_B3d, CellChDes_Omit, ChMod_omit, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
		local_handover7			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
126		[TSPC_PGSM OR TSPC_EGSM]			
127		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_BCCHcarrierB_ho, 8, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_01, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
128		[TSPC_DCS]			
129		(TCV_HoCMD := HandOverCmd_fh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, C_BCCHcarrierB_hod, 8, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_20_B4d, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			
		local_HoCMD_nofh			
130		(TCV_HoCMD := HandOverCmd_nfh(TCV_chtype, TCV_ts, TCV_tsc, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))			

Detailed Comments : 0. IUT enters state U10 with TCH/F_nonFH in cell A
1. PhyInfo is dequeued from the sending buffer, but held through OM_SendNextOnHO at the lower layers of the tester for sending till having received TCV_Cntref access bursts.
2. HO from TCH/F_nonFH of cell A to TCH/F_nonFH in CELL B
3. HO from TCH/F_FH of cell A to TCH/F_FH in CELL B
4. HO from TCH/F_FH of cell A to TCH/F_nonFH in CELL B
5. HO from TCH/F_nonFH of cell A to TCH/H_FH in CELL B
6. HO from TCH/H_FH of cell A to TCH/H_FH in CELL B
7. HO from TCH/H_FH of cell A to TCH/H_nonFH in CELL B
8. HO from TCH/H_nonFH of cell A to TCH/H_FH in CELL B
9. HO from TCH/H_FH of cell A to TCH/F_nonFH in CELL B
10. The first handover access burst starts too late or too early. (10ms means 2 frames tolerance for
TCH/H channel, 5ms means 1 frame tolerance for TCH/F channel)

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_1

Group : RR/

Purpose : To test that when the MS is ordered to make a Non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		(TCV_ia_ts:= '000'B, TCV_ts:= '000'B, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
6		+FullRateCh_B_1(C_Asynho, TCV_ts, TSPX_TscA, TCV_ChMod, FreqTCHb_hof3, FreqTCHb_hof3d, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		+localtree_setArfcn			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+Est_MO_Call_init(C_CHSDCCH4_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)			1.
9		(TCV_nc := ’010’B)			
10		+Check_Cells_Present (TCV_nc, TCV_sacch)			
11	body	+ltree_sendHoCMD			
12		(TCV_chTch1 := TCV_ch)			
13		(TCV_ch:= C_FACCHF_B_1)			
14		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
15		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
16		+RR_hocomp1(500, TCV_chTch1)			
17		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
18		+SendSeqNo_chk			4.
19	post	+ChanRel_end(TCV_ch)			
		ltree_sendHoCMD			
20		[TSPC_PGSM OR TSPC_EGSM]			
21		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(’00001’B, TCV_ts, TSPX_TscA, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 15, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_06, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
22		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscA, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 11, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_20_B5d, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		localtree_setArfcn			
24		[TSPC_PGSM OR TSPC_EGSM]			
25		(TCV_chdescr_arfcn:= C_arfcnA)			
26		[TSPC_DCS]			
27		(TCV_chdescr_arfcn:= C_arfcnAd_4)			
Detailed Comments : 1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2. 2. HO from SDCCH/4_nonFH to TCH/F_FH. 3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg. 4. Check of the sequence number.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_2

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		(TCV_ia_ts:= ’000’B, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccD, TCV_Horf:= TSPX_HoRefB, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
6		+HalfRateCh_B_1(TSPX_TCHHSubDef, C_Asynho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCHb_hof4, FreqTCHb_hof4d, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		+local_setArfcn			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+Est_MO_Call_init(C_CHSDCCH4_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)			1.
9		(TCV_nc := '010'B)			
10		+Check_Cells_Present (TCV_nc, TCV_sacch)			
11	body	+local_sendHoCMD			
12		(TCV_chTch1 := TCV_ch)			
13		(TCV_ch:= OC_SubchOfFacchh(TSPX_TCHHSubDef, C_CellB, 1))			
14		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
15		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
16		+RR_hocomp1(750, TCV_chTch1)			
17		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
18		+SendSeqNo_chk			4.
19	post	+ChanRel_end(TCV_ch)			
		local_sendHoCMD			
20		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 3, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_21_B, TCV_ChMod, Freqchseq_omit, MoblAllc_252, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
23		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 3, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_omit, CellChDes_21_Bd, TCV_ChMod, Freqchseq_omit, MoblAllc_252d, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		local_setArfcn			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		(TCV_chdescr_arfcn:= C_arfcnA)			
27		[TSPC_DCS]			
28		(TCV_chdescr_arfcn:= C_arfcnAd_4)			

Detailed Comments :
1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH/4_nonFH to TCH/H_FH.
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. Check the sending sequence number and assign verdict.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_3

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		(TCV_ia_ts:= '000'B, TCV_ts:= '000'B, TCV_Cntref:= TSPX_NoOfHoAccG, TCV_Horf:= TSPX_HoRefC, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
6		+SDCCH8_B_1(TSPX_SDCCH8SubA, C_Asynho, TCV_ts, TSPX_TscC, ChMod_sign, FreqSDCCH8b_hof1, FreqSDCCH8b_hof1d, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		+localtree_setArfcn			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+Est_MO_Call_init(C_CHSDCCH4_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)			1.
9		+localtree_setArfcn			
10		(TCV_nc := '010'B)			
11		+Check_Cells_Present (TCV_nc, TCV_sacch)			
12	body	+ltree_sendHoCMD			
13		(TCV_chTch1 := TCV_ch)			
14		(TCV_ch:= OC_SubchOfSdcch8(TSPX_SDCCH8SubA, C_CellB, 1))			
15		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
16		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
17		+RR_hocomp1(1500, TCV_chTch1)			
18		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
19		+SendSeqNo_chk			4.
20	post	+ChanRel_end(TCV_ch)			
		ltree_sendHoCMD			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 15, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_20_B7, CellChDes_Omit, ChMod_sign_iei, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
23		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 2, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_20_B7d, CellChDes_Omit, ChMod_sign_iei, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		localtree_setArfcn			
25		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
26		[TSPC_PGSM OR TSPC_EGSM]			
27		(TCV_chdescr_arfcn:= C_arfcnA)			
28		[TSPC_DCS]			
29		(TCV_chdescr_arfcn:= C_arfcnAd_4)			

Detailed Comments :
1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH/4_nonFH to SDCCH8_FH.
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. To check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_4

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccH, TCV_Horf:= TSPX_HoRefD, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltNotZero)			
6		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscA, ChMod_sign, FreqTCH(C_arfcnA), FreqTCH(C_arfcnAd_4), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvA), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+SDCCH8_B_1(TSPX_SDCCH8SubA, C_Asynho, TCV_ts, TSPX_TscB, ChMod_sign, FreqSDCCH8b_hof2, FreqSDCCH8b_hof2d, TimingAdv(TSPX_TimadvA), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
9		+localtree_setTchArfcn			
10		+Est_MO_Call_init(C_CHSDCCH8_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), TSPX_TscA, C_one, C_one)			1.
11		+localtree_setTchArfcn			
12		(TCV_nc := '010'B)			
13		+Check_Cells_Present (TCV_nc, TCV_sacch8)			
14	body	+ltree_sendHoCMD			
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch := OC_SubchOfSdcch8(TSPX_SDCCH8SubA, C_CellB, 1))			
17		(TCV_Null := OM_SendNextOnHO(T CV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvA))		
19		+RR_hocomp1(1500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.m sg.mt)	SetupRcv(SetupInd_01)		3.
21		+SendSeqNo_c hk			4.
22	post	+ChanRel_end (TCV_ch)			
		ltree_sendHoCMD			
23		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 14, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_omit, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_02, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
25		[TSPC_DCS]			
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 16, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_20_B8d, Frql_omit, CellChDes_Omit, ChMod_omit, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		localtree_setTchArfcn			
27		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
28		[TSPC_PGSM OR TSPC_EGSM]			
29		(TCV_tch_arfcn:= C_arfcnA)			
30		[TSPC_DCS]			
31		(TCV_tch_arfcn:= C_arfcnAd_4)			

Detailed Comments :
1. Initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH8_NonFH to SDCCH8_FH.
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. Checking of the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_5

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccE, TCV_Horf:= TSPX_HoRefE, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltNotZero)			
6		+FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts, TSPX_TscA, ChMod_sign, FreqTCH(TSPX_TCHcarrierA_ho), FreqTCH(TSPX_TCHcarrierA_hod), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
8		+local_set_arfcn			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+HalfRateCh_B_1(TSPX_TCHHSubDef, C_Asynho, TCV_ts, TSPX_TscB, ChMod_sign, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
10		+Est_MO_Call_init(C_CHTCHF_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), TSPX_TscA, C_one, C_one)			1.
11		+localtree_varinit			
12		(TCV_sacchTch2 := C_SACCHF_A_1)			
13		(TCV_nc := '010'B)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15	body	L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), ChMod_sign_iei, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
16		(TCV_chTch1 := TCV_ch)			
17		(TCV_ch:= TCV_chTch)			
18		(TCV_Null := OM_SendNextOnHO (TCV_ch, TCV_Cntref))			
19		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
20		+RR_hocomp1(750, TCV_chTch1)			
21		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
22		+SendSeqNo_chk			4.
23	post	+ChanRel_end(TCV_ch)			
		localtree_varinit			
24		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		[TSPC_PGSM OR TSPC_EGSM]			
26		(TCV_tch_arfcn := TSPX_TCHcarrierB_ho, TCV_chdescr_arfcn := C_BCCHcarrierB_ho)			
27		[TSPC_DCS]			
28		(TCV_tch_arfcn :=TSPX_TCHcarrierB_hod, TCV_chdescr_arfcn := C_BCCHcarrierB_hod)			
		local_set_arfcn			
29		[TSPC_PGSM OR TSPC_EGSM]			
30		(TCV_tch_arfcn := TSPX_TCHcarrierA_ho, TCV_ch := TCV_chTch)			
31		[TSPC_DCS]			
32		(TCV_tch_arfcn :=TSPX_TCHcarrierA_hod, TCV_ch := TCV_chTch)			

Detailed Comments :
1. Initiate a call and last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCH/F_NonFH to TCH/H_NonFH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. To check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_6

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccB, TCV_Horf:= TSPX_HoRefF, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlC, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltNotZero)			
6		+HalfRateCh_A_1_nociph(TSPX_TCHHSubDef, C_Immass, TCV_ia_ts, TSPX_TscG, ChMod_sign, FreqTCHa_hof3, FreqTCHa_hof3d, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		(TCV_ch := TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
9		+FullRateCh_B_1(C_Asynho, TCV_ts, TSPX_TscF, ChMod_sign, FreqTCHb_hof5, FreqTCHb_hof5d, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
10		+Est_MO_Call_init(C_CHTCHH_FH, MoblAllc_20_A0, MoblAllc_20_A0, TimingAdv(30), TSPX_TscG, 17, 17)			1.
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := OC_SubchOfSacchh(TSPX_TCHHSubDef, C_CellA, 1))			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14	body	+local_HoCMD			
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch := TCV_chTch)			
17		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
19		+RR_hocomp1(500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
21		+SendSeqNo_chk			4.
22	post	+ChanRel_end (TCV_ch)			
		local_HoCMD			
23		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscF, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 5, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_20_B, ChMod_sign_iei, Freqchseq_omit, MoblAllc_20_B1iei, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
25		[TSPC_DCS]			
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscF, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 9, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_20_B9d, CellChDes_Omit, ChMod_sign_iei, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCHH_FH to TCH/F_FH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. To check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_7

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		(TCV_ia_ts:= C_S0, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccC, TCV_Horf:= TSPX_HoRefG, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlC, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		+FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts, TSPX_TscE, TCV_ChMod, FreqTCHa_hof2, FreqTCHa_hof2d, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
6		(TCV_ch := TCV_chTch)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvC), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+FullRateCh_B_1(C_Asynho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCHb_hof9, FreqTCHb_hof9d, TimingAdv(TSPX_TimadvC), C_BABR_0, C_cch_1Comb, C_BPM_3)			
9		+Est_MO_Call_init(C_CHTCHF_FH, MoblAllc_20_A2, MoblAllc_20_A2, TimingAdv(30), TSPX_TscE, 1, 1)			1.
10		(TCV_nc :='010'B)			
11		(TCV_sacchTch2 := C_SACCHF_A_1)			
12		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
13	body	+ltree_hoCMD			
14		(TCV_chTch1 := TCV_ch)			
15		(TCV_ch := TCV_chTch)			
16		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
17		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvC))		
18		+RR_hocomp1(500, TCV_chTch1)			
19		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
20		+SendSeqNo_chk			4.
21	post	+ChanRel_end(TCV_ch)			
		ltree_hoCMD			
22		[TSPC_PGSM OR TSPC_EGSM]			
23		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 16, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_20_B2, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
24		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 13, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_20_B0d, TCV_ChMod, Freqchseq_omit, MoblAllc_22, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCHH_FH to TCH/F_FH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. Checking of the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_8

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero, TCV_ts:= C_S0, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefH, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltNotZero)			
6		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscA, ChMod_sign, FreqSDCCHa_hof1, FreqSDCCHa_hof1d, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+FullRateCh_B_1(C_Asynho, TCV_ts, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
9		+Est_MO_Call_init(C_CHSDCCH8_FH, MoblAllc_281, MoblAllc_281d, TimingAdv(30), TSPX_TscA, 3, 3)			1.
10		+local_varinit			
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14	body	L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh('00001'B, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch := TCV_chTch)			
17		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
19		+RR_hocomp1 (500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
21		+SendSeqNo_chk			4.
22	post	+ChanRel_end (TCV_ch)			
		local_varinit			
23		[TSPC_PGSM OR TSPC_EGSM]			
24		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn:= TSPX_TCHcarrierB_ho)			
25		[TSPC_DCS]			
26		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn:= TSPX_TCHcarrierB_hod)			

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCHH_FH to TCH/F_FH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. To check whether the sending sequence number is matched with the last unacknowledged one.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_9

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		(TCV_ia_ts:= TSPX_TmSltF, TCV_ts:= TSPX_TmSltB, TCV_Cntref:= TSPX_NoOfHoAccB, TCV_Horf:= TSPX_HoRefI, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltF)			
6		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscA, ChMod_sign, FreqTCH(C_arfcnC), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.
8		+local_setTimSlt			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+FullRateCh_B_1(C_Asynho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCHb_hof6, FreqTCHb_hof6d, TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
10		+local_setTchArfcn			
11		+Est_MO_Call_init(C_CHSDCCH8_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), TSPX_TscA, C_one, C_one)			1.
12		(TCV_nc :='010'B)			
13		(TCV_sacchTch2 := TCV_sacch8)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15	body	+ltree_HoCMD			
16		(TCV_chTch1 := TCV_ch)			
17		(TCV_ch:= C_FACCHF_B_1)			
18		(TCV_Null := OM_SendNextOnHO (TCV_ch, TCV_Cntref))			
19		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
20		+RR_hocomp1(500, TCV_chTch1)			
21		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
22		+SendSeqNo_chk			4.
23	post	+ChanRel(TCV_ch)			
		ltree_HoCMD			
24		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 2, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_03, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
26		[TSPC_DCS]			
27		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 3, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_non_synchronised), Frql_20_B10d, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		local_setTchArfcn			
28		[TSPC_PGSM OR TSPC_EGSM]			
29		(TCV_tch_arfcn:= C_arfcnC)			
30		[TSPC_DCS]			
31		(TCV_tch_arfcn:= C_arfcn_tchAd)			
		local_setTimSlt			
32		[TSPC_PGSM OR TSPC_EGSM]			
33		(TCV_ts:= C_S0)			
34		[TSPC_DCS]			
35		(TCV_ts := TSPX_TmSltNotZero)			

Detailed Comments : 1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCHH_FH to TCH/F_FH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. Checking of the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_2_10

Group : RR/

Purpose : To test that when the MS is ordered to make a non−synchronised handover, it continuously sends access bursts on the main DCCH until it receives a PHYSICAL INFORMATION from the SS. To test that the MS correctly takes the values of the Timing Advance and Starting Time information elements into account. To test that the MS activates the new channel correctly. To test that the MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		(TCV_ia_ts:= TSPX_TmSltG, TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccF, TCV_Horf:= TSPX_HoRefJ, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSltG)			
6		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscB, ChMod_sign, FreqTCH(C_arfcnC), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
7		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_202_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_0, C_NCC_3, TSPX_k, 0)			The timeslots of Cells A and B are not coincident at the antenna connector.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		+HalfRateCh_B_1(TSPX_TCHHSubDef, C_Asynho, TCV_ts, TSPX_TscC, TCV_ChMod, FreqTCHb_hof7, FreqTCHb_hof7d, TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
9		+localtree_TchArfcn			
10		+Est_MO_Call_init(C_CHSDCCH8_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(30), TSPX_TscB, C_one, C_one)			1.
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14	body	+ltree_sendHoCMD			
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch:= OC_SubchOfFacchh(TSPX_TCHHSubDef, C_CellB, 1))			
17		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvB))		
19		+RR_hocomp1(750, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		3.
21		+SendSeqNo_chk			4.
22	post	+ChanRel(TCV_ch)			
		ltree_sendHoCMD			
23		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
24		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, C_BCCHcarrierB_ho, 2, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_04, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
26		[TSPC_DCS]			
27		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC_3, C_BCC_0, C_BCCHcarrierB_hod, 15, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_20_11d, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
		localtree_TchArfcn			
28		[TSPC_PGSM OR TSPC_EGSM]			
29		(TCV_tch_arfcn:= C_arfcnC)			
30		[TSPC_DCS]			
31		(TCV_tch_arfcn:= C_arfcn_tchAd)			

Detailed Comments :
1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCHH_FH to TCH/F_FH
3. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
4. Checking of the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_3_1

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_asscmd_ts := TSPX_TmSltNotZero1, TCV_ts:= TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))			
3		+BasicServiceMT(TSPX_MTBscSvcI, C_Full)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 0)			BCCH of cell B is TSPX_k bit periods after cell A
6		+FullRateCh_B_1(C_Synho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCH(C_BCCHcarrierB_ho), FreqTCH(C_BCCHcarrierB_hod), TimingAdv(TSPX_k*2 + TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7		+FullRateCh_A_1(C_Ass, TCV_asscmd_ts, TSPX_TscDef, TCV_ChMod, FreqTCHa_hof1, FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		+local_varinit1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+Est_MT_Call_FH(TimingAdv(TSPX_y), C_Full, TCV_maio, TSPX_HSN, TSPX_RANDDef, TCV_asscmd_ts, TSPX_TscDef, TSPX_TCHHSubDef)			1.
10		+local_varinit2			
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := C_SACCHF_A_1)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		(TCV_Null := OM_NextTxFn (TCV_chTch, C_I))			Prime the lower emulator
15	body	L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh('00001'B, TCV_ts, TSPX_TscB, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_chdescr_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), TCV_ChMod, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
16		(TCV_Fn1 := OM_GetTxFn (TCV_chTch))			Retrieve the last frame number of the Handover Command
17		(TCV_ch := C_FACCHF_B_1, TCV_sacch := C_SACCHF_B_1)			
18		+RR_hocomp3(650, TCV_chTch)			
19		+Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
20	post	+ChanRel_end(TCV_ch)			
		local_varinit1			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		(TCV_chdescr_arfcn:= C_arfcnA, TCV_maio := INT_TO_BIT((TSPX_MAIO MOD 12), 6))			
23		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		(TCV_chdescr_arfcn:= C_arfcnAd, TCV_maio := INT_TO_BIT((TSPX_MAIO MOD 9), 6))			
		local_varinit2			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho)			
27		[TSPC_DCS]			
28		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod)			
Detailed Comments : 1. IUT enters state U10 with TCH/F_FH in cell A 2. HO from TCH/F_FH of cell A to TCH/F_nonFH in CELL B. 3. To check the power level and timing advance in the L1 head.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_3_2

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_asscmd_ts := TSPX_TmSltNotZero1, TCV_ts:= TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefB, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlC, 5))			
3		+BasicServiceMT(TSPX_MTBscSvcI, C_Half)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 0)			BCCH of cell B is TSPX_k bit periods after cell A
6		+HalfRateCh_B_1(TSPX_TCHHSubDef, C_Synho, TCV_ts, TSPX_TscC, TCV_ChMod, FreqTCH(C_BCCHcarrierB_ho), FreqTCH(C_BCCHcarrierB_hod), TimingAdv(TSPX_k*2 + TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
7		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TCV_asscmd_ts, TSPX_TscDef, TCV_ChMod, FreqTCHa_hof1, FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		+localtree_varinit1			
9		+Est_MT_Call_FH(TimingAdv(TSPX_y), C_Half, TCV_maio, TSPX_HSN, TSPX_RANDDef, TCV_asscmd_ts, TSPX_TscDef, TSPX_TCHHSubDef)			1.
10		+localtree_varinit2			
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := OC_SubchOfSacchh(TSPX_TCHHSubDef , C_CellA, 1))			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		(TCV_Null := OM_NextTxFn (TCV_chTch, C_I))			Prime the lower emulator
15	body	L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TCV_ts, TSPX_TscC, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_chdescr_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), TCV_ChMod, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
16		(TCV_Fn1 := OM_GetTxFn (TCV_chTch))			Retrieve the last frame number of the Handover Command
17		(TCV_ch:= OC_SubchOfFacchh(TSPX_TCHHSubDef, C_CellB, 1), TCV_sacch := OC_SubchOfSacchh(TSPX_TCHHSubDef, C_CellB, 1))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+RR_hocomp3(900,TCV_chTch)			
19		+Timadv_Pwrlvl_ch k(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
20	post	+ChanRel_end(TCV_ch)			
		localtree_varinit1			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		(TCV_chdescr_arfcn:= C_arfcnA, TCV_maio := INT_TO_BIT((TSPX_MAIO MOD 12), 6))			
23		[TSPC_DCS]			
24		(TCV_chdescr_arfcn:= C_arfcnAd, TCV_maio := INT_TO_BIT((TSPX_MAIO MOD 9), 6))			
		localtree_varinit2			
25		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
26		[TSPC_PGSM OR TSPC_EGSM]			
27		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho)			
28		[TSPC_DCS]			
29		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod)			

Detailed Comments : 1. IUT enters state U10 with TCH/H_FH in cell A
2. HO from TCH/H_FH of cell A to TCH/H_nonFH in CELL B.
3. To check the power level and timing advance in the L1 head.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_4_1

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use. To test that the MS correctly retransmits Layer 3 MM or CC messages that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		(TCV_ts:= TSPX_TmSltNotZero, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100)			The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100.
6		(TCV_ia_ts:= TSPX_TmSltNotZero)			
7		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscC, ChMod_sign, FreqSDCCHa_hof2, FreqSDCCHa_hof2d, TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
8		(TCV_temp := ((TSPX_k*2 + TSPX_y) MOD 256))			
9		+SDCCH8_B_1(TSPX_SDCCH8SubDef, C_Synho, TCV_ts, TSPX_TscA, ChMod_sign, FreqSDCCH8b_hof3, FreqSDCCH8b_hof2d, TimingAdv(TCV_temp), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
10		+Est_MO_Call_init(C_CHSDCCH8_FH, MoblAllc_282, MoblAllc_282, TimingAdv(TSPX_y), TSPX_TscC, 16, 16)			1.
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := OC_SubchOfSacch8(TSPX_SDCCH8SubDef , C_CellA, 1))			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		(TCV_Null := OM_NextTxFn (TCV_ch, C_I))			Prime the lower emulator

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15	body	+ltree_hoCMD			
16		(TCV_Fn1 := OM_GetTxFn (TCV_ch), TCV_Fn1 := OC_FnInc (TCV_Fn1, 100))			Retrieve the last frame number of the Handover Command and increment by 100 frames for the offset of Cell B
17		(TCV_chTch1 := TCV_ch, TCV_ch := TCV_chTch, TCV_sacch := TCV_sacchTch)			
18		+RR_hocomp3(1500, TCV_chTch1)			
19		+Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
20		L?DL_DatInSetup (TCV_Mt1 :=DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		4.
21		+SendSeqNo_chk			5.
22	post	+ChanRel_end(TCV_ch)			
		ltree_hoCMD			
23		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
24		[TSPC_PGSM OR TSPC_EGSM]			
25		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscA, C_NCC, C_BCC, C_BCCHcarrierB_ho, 16, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), Frql_omit, Frql_20_B0, CellChDes_Omit, ChMod_sign_iei, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
26		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_Tchtype, TCV_ts, TSPX_TscA, C_NCC, C_BCC, C_BCCHcarrierB_hod, 16, C_HSN_0, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), Frql_omit, Frql_20_B0d, CellChDes_Omit, ChMod_sign_iei, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH/8_FH to SDCCH/8_FH
3. To check Timing Advance and Power Level in the next uplink SACCH head
4. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
5. to check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_4_2

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use. To test that the MS correctly retransmits Layer 3 MM or CC messages that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		(TCV_ts:= C_S0, TCV_Horf:= TSPX_HoRefB, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Synho, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100)			The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
6		(TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellB), TCV_Null := OM_CphMd(TCV_ch1, CphMod_01, TCV_CphKey))			put the handover target channel in ciphering mode
7		(TCV_ia_ts:= TSPX_TmSltNotZero)			
8		+local_set_DCS_Slot			
9		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscF, ChMod_sign, FreqSDCCHa_hof3, FreqSDCCHa_hof3d, TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
10		+Est_MO_Call_init_HSN0(C_CHSDCCH8_FH, MoblAllc_20_A3, MoblAllc_20_A3d, TimingAdv(TSPX_y), TSPX_TscF, 15, 15)			1.
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14	body	+local_set_arfcn			
15		(TCV_Null := OM_NextTxFn (TCV_ch, C_I))			Prime the lower emulator
16		L!DL_DatRqHoCmd (DL_DatRqHoCmd.msg.strt := OC_StartTime(TCV_Fn, C_StartingTimeHO, 1))	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, C_S0, C_BCC, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		(TCV_Fn1 := OM_GetTxFn (TCV_ch), TCV_Fn1 := OC_FnInc (TCV_Fn1, 100))			Retrieve the last frame number of the Handover Command and increment by 100 frames for the offset of Cell B
18		(TCV_chTch1 := TCV_ch, TCV_ch := TCV_ch1, TCV_sacch := TCV_sacch_B)			
19		+RR_hocomp3(2600, TCV_chTch1)			
20		+Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
21		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		4.
22		+SendSeqNo_chk			5.
23	post	+ChanRel_end(TCV_ch)			
		local_set_DCS_Slot			
24		[TSPC_PGSM OR TSPC_EGSM]			
25		[TSPC_DCS]			
26		(TCV_ia_ts := C_S0)			
		local_set_arfcn			
27		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))			
28		[TSPC_PGSM OR TSPC_EGSM]			
29		(TCV_tch_arfcn := C_BCCHcarrierB_ho, TCV_chdescr_arfcn := C_BCCHcarrierB_ho)			
30		[TSPC_DCS]			
31		(TCV_tch_arfcn := C_BCCHcarrierB_hod, TCV_chdescr_arfcn := C_BCCHcarrierB_hod)			

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH/8_FH to SDCCH/4_NoFH
3. To check whether the power level and timing advance in the L1 head is correct.
4. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
5. To check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_4_3

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use. To test that the MS correctly retransmits Layer 3 MM or CC messages that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcF, C_Full)			
3		(TCV_ts:= C_S0, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100)			The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
6		(TCV_ia_ts:= TSPX_TmSltNotZero)			
7		+FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts, TSPX_TscD, TCV_ChMod, FreqTCH(C_arfcnA), FreqTCH(C_arfcnAd_4), TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_ch := TCV_chTch)			
9		+FullRateCh_B_1(C_Synho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCHb_hof8, FreqTCHb_hof8d, TimingAdv(TSPX_k*2 + TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)			
10		+local_set_arfcn			
11		+local_continue			
		local_continue			
12		+Est_MO_Call_init(C_CHTCHF_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(TSPX_y), TSPX_TscD, C_one, C_one)			1.
13		(TCV_nc :='010'B)			
14		(TCV_sacchTch2 := C_SACCHF_A_1)			
15		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
16		(TCV_Null := OM_NextTxFn (TCV_ch, C_I))			Prime the lower emulator
17	body	+ltree_hoCMD			
18		(TCV_Fn1 := OM_GetTxFn (TCV_ch), TCV_Fn1 := OC_FnInc (TCV_Fn1, 100))			Retrieve the last frame number of the Handover Command and increment by 100 frames for the offset of Cell B
19		(TCV_chTch1 := TCV_ch, TCV_ch := TCV_chTch, TCV_sacch := TCV_sacchTch)			
20		+RR_hocomp3(650, TCV_chTch1)			
21		+Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
22		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		4.
23		+SendSeqNo_chk			5.
24	post	+ChanRel_end(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_hoCMD			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC, C_BCC, C_BCCHcarrierB_ho, 4, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), Frql_omit, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_05, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
27		[TSPC_DCS]			
28		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh('00001'B, TCV_ts, TSPX_TscB, C_NCC, C_BCC, C_BCCHcarrierB_hod, 3, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), Frql_20_B12d, Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
		local_set_arfcn			
29		[TSPC_PGSM OR TSPC_EGSM]			
30		(TCV_tch_arfcn := C_arfcnA)			
31		[TSPC_DCS]			
32		(TCV_tch_arfcn := C_arfcnAd_4)			

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from TCH/F_NoFH to TCH/F_FH
3. To check the power level and timing advance in L1 head
4. Last L3−msg shall be retransmitted by the MS with the same sequence number of last L3−msg.
5. Checking of the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_4_4

Group : RR/

Purpose : To test that when the MS is ordered to make a finely synchronised handover to a synchronised cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly, taking into account the value of any Starting Time information element and correctly calculating the timing advance to use. To test that the MS correctly retransmits Layer 3 MM or CC messages that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		(TCV_ts:= TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefD, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+StartCellB_ho(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TSPX_k*2 + TSPX_y), C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k, 100)			The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
6		(TCV_ia_ts:= TSPX_TmSltE)			
7		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscDef, ChMod_sign, FreqTCH(TSPX_TCHcarrierA_ho), FreqTCH(TSPX_TCHcarrierA_hod), TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
8		+FullRateCh_B_1(C_Synho, TCV_ts, TSPX_TscA, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(TSPX_k*2 + TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
9		+local_set_arfcn1			
10		+Est_MO_Call_init(C_CHSDCCH8_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv(TSPX_y), TSPX_TscDef, C_one, C_one)			1.
11		+local_set_arfcn2			
12		(TCV_nc :='010'B)			
13		(TCV_sacchTch2 := TCV_sacch8)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15		(TCV_Null := OM_NextTxFn (TCV_ch, C_I))			Prime the lower emulator
16	body	L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh('00001'B, TCV_ts, TSPX_TscA, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TCV_Horf, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		(TCV_Fn1 := OM_GetTxFn (TCV_ch), TCV_Fn1 := OC_FnInc (TCV_Fn1, 100))			Retrieve the last frame number of the Handover Command and increment by 100 frames for the offset of Cell B
18		+local_continue			
		local_continue			
19		(TCV_chTch1 := TCV_ch, TCV_ch := TCV_chTch, TCV_sacch := TCV_sacchTch)			
20		+RR_hocomp3(650, TCV_chTch1)			
21		+Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			3.
22		L?DL_DatInSetup (TCV_Mt1 :=DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
23		+SendSeqNo_chk			4.
24	post	+ChanRel_end(TCV_ch)			
		local_set_arfcn2			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn := TSPX_TCHcarrierB_ho)			
27		[TSPC_DCS]			
28		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn := TSPX_TCHcarrierB_hod)			
		local_set_arfcn1			
29		[TSPC_PGSM OR TSPC_EGSM]			
30		(TCV_tch_arfcn := TSPX_TCHcarrierA_ho)			
31		[TSPC_DCS]			
32		(TCV_tch_arfcn := TSPX_TCHcarrierA_hod)			

Detailed Comments :
1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.
2. HO from SDCCH/8_FH to TCH/F_NoFH
3. To check power level and timing advance in the L1 head
4. To check the sending sequence number.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_5_1

Group : RR/

Purpose : To verify that when the MS is ordered to make a pre−synchronised handover to another cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly and correctly calculates the time to transmit.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, C_Full)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+StartCellB_ho(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(1), 5, 1, 0, 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k1, 0)			2.
7		+FullRateCh_B_1_pwr(C_Synho, TSPX_TmSltC, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TSPX_PwrlvlA, TSPX_PwrlvlA, TimingAdv(1), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_chTch := C_FACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1, TCV_sacchTch1 := C_SACCHF_B_1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubC, C_MaxPwrLvlG, C_MaxPwrLvlD, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.
10		(TCV_Fn := OM_ComingFn(TCV_chTch), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn))			
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := C_SACCHF_A_1)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14	body	+local_HoCMD			4.
15		+local_continue			
		local_continue			
16		(TCV_L1Head := OM_GetL1Hd(TCV_sacchTch1), TCV_Cnt := 0)			
17		REPEAT local_hoacc(TCV_chTch1) UNTIL [TCV_Cnt = 4]			
18		(TCV_HoaccPara := OM_GetHoaccPara(TCV_chTch1))			
19		+Check_hoaccTiming(TCV_HoaccPara, '0000000'B)			5.
20		+Check_hoaccPwr(TCV_HoaccPara, TCV_Pwrlvl_ho)			5.
21		L?DL_EstIn CANCEL T_dly1	DLEstInd(TCV_chTch1)		
22		L?DL_DatInHoCom(TCV_Fn1 := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)		
23		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
24	L_0229	[TCV_L1Head.ta = '0000001'B]		(P)	6.
25		+Check_Time(650)			
26		+PostMainLinkRel(TCV_chTch1)			
27	L_0230	[TCV_L1Head.ta <> '0000001'B]		(F)	
28		+Check_Time(650)			
29		+PostMainLinkRel(TCV_chTch1)			
		local_hoacc(ch : LOGICCH)			
30		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		
31	L_0231	[TCV_Hrf <> TSPX_HoRefD]		(F)	
32		(TCV_Cnt := TCV_Cnt + 1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33	L_0232	[TCV_Hrf = TSPX_HoRefD]		(P)	7.
34		(TCV_Cnt := TCV_Cnt + 1)			
		local_HoCMD			
35		(TCV_Tchtype := ’00001’B)			
36		[TSPC_PGSM OR TSPC_EGSM]			
37		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefD, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_pre_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
38		[TSPC_DCS]			
39		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefD, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_pre_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

Detailed Comments :
1. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell A.
2. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell B.
3. To bring the MS into the U10 state.
4. Pre−synch handover without TA IE.
5. Check access power level and TA.
6. The received timing advance is 1 bit period, pass.
7. The received handover reference is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_5_2

Group : RR/

Purpose : To test that when the MS is ordered to make a pre−synchronised handover to another cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly and correctly calculates the time to transmit. To test that the MS correctly retransmits Layer 3 MM or CC messages that were not acknowledged by Layer 2 before the Handover, after completion of the Handover. To test that the MS correctly reports on the time difference between the cells.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, C_Full)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+StartCellB_ho(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(9), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k1, 0)			2.
7		+FullRateCh_B_1_pwr(C_Synho, TSPX_TmSltC, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TSPX_PwrlvlA, TSPX_PwrlvlA, TimingAdv(9), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_chTch1 := C_FACCHF_B_1, TCV_sacchTch1 := C_SACCHF_B_1)			
9	body	+InitCall(TCV_Service)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
11		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(TSPX_y)))		3.
12		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
13		(TCV_Null := OM_NoL2Ack(2, TCV_ch))			
14		+Ciphering_on(TCV_ch)			
15		+localtree1			
		localtree1			
16		L?DL_DatInSetup (TCV_Mt :=DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
17		(TCV_Fn := OM_ComingFn(TCV_ch), TCV_n := 0−459, TCV_Fn := OC_FnInc(TCV_Fn, TCV_n), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_chTch := TCV_ch)			
18		+local_hoCMD			
19		+Varinit_fix(C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
20		(TCV_L1Head := OM_GetL1Hd(TCV_sacchTch1))			
21		+localtree2(TCV_chTch1)			
22		L?DL_EstIn	DLEstInd(TCV_chTch1)		
23	L_0239	L?DL_DatInHoCom(TCV_Fn1 := DL_DatInHoCom.fn, TCV_Td := DL_DatInHoCom.msg.motdif.value)	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)	(P)	
24		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
25		+CheckMTDif(TCV_Td, TSPX_y, TSPX_k1)			
26	L_0240	[TCV_L1Head.ta <>'0001001'B]		(F)	
27		+Check_Time(650)			
28		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
29		+SendSeqNo_chk			
30		+PostMainLinkRel(TCV_chTch1)			
31	L_0241	[TCV_L1Head.ta = '0001001'B]		(P)	
32		+Check_Time(650)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
34		+SendSeqNo_chk			
35		+PostMainLinkRel(TCV_chTch1)			
		localtree2(ch : LOGICCH)			
36		(TCV_Cnt := 0)			
37		REPEAT localtree3(ch) UNTIL [TCV_Cnt = 4]			
38		(TCV_HoaccPara := OM_GetHoaccPara(ch))			
39		+Check_hoaccPwr (TCV_HoaccPara, TCV_Pwrlvl_ho)			
		localtree3(ch : LOGICCH)			
40		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		
41	L_0244	[TCV_Hrf <> TSPX_HoRefF]		(F)	
42		(TCV_Cnt := TCV_Cnt + 1)			
43	L_0245	[TCV_Hrf = TSPX_HoRefF]		(P)	
44		(TCV_Cnt := TCV_Cnt + 1)			
		local_hoCMD			
45		(TCV_Tchtype := ’00001’B)			
46		[TSPC_PGSM OR TSPC_EGSM]			
47		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefF, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_pre_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_iei(9), CphMod_omit))		
48		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
49		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefF, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_pre_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_iei(9), CphMod_omit))		
Detailed Comments : 1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel. 2. Cell B with BCCH, CCCH, SDCCH4 and a traffic channel. The BCCH of cell B is TSPX_k bit periods after the BCCH of cell A.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_6

Group : RR/

Purpose : To test that when the MS is ordered to make a pseudo synchronised handover to another cell, it sends 4 access bursts on the main DCCH and then activates the channel correctly and correctly calculates the time to transmit. To test that the MS correctly reports the time difference between the cells.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, C_Full)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y2), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(TSPX_y2), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		(TCV_temp := TSPX_y2 − 10)			
7		+StartCellB_ho(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(TCV_temp), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k2, 0)			2.
8		+FullRateCh_B_1_pwr(C_Ass, TSPX_TmSltC, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TSPX_PwrlvlA, TSPX_PwrlvlA, TimingAdv(TCV_temp), C_BABR_0, C_cch_1Comb, C_BPM_3)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		(TCV_chTch := C_FACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1, TCV_sacchTch1 := C_SACCHF_B_1)			
10		+PreEnterCCstateU10_r01(TimingAdv(TSPX_y2), TSPX_SDCCH4SubDef, 0, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.
11		(TCV_nc :='010'B)			
12		(TCV_sacchTch2 := C_SACCHF_A_1)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		+local_HoCMD			4.
15		+ localtree(TCV_chTch1)			
16		+localtree1			
		localtree1			
17		(TCV_Fn := OM_ReturnFn (TCV_chTch))			
18		L?DL_EstIn	DLEstInd(TCV_chTch1)		
19		L?DL_DatInHoCom (TCV_Td := DL_DatInHoCom.msg.motdif.value, TCV_Fn1 := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)		5.
20		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
21		+CheckMTDif(TCV_Td, TSPX_y2, TSPX_k2)			
22		+Check_Time(650)			
23	L_0248	[(BIT_TO_INT(TCV_L1Head.ta) >= (TSPX_y2 − 10 − 2)) OR (BIT_TO_INT(TCV_L1Head.ta) <= (TSPX_y2 − 10 + 2))]		(P)	6.
24		+PostMainLinkRel(TCV_chTch1)			
25	L_0249	[C_Yes]		(F)	
26		+PostMainLinkRel(TCV_chTch1)			
		localtree(ch : LOGICCH)			
27		(TCV_Cnt := 0, TCV_L1Head := OM_GetL1Hd(TCV_sacchTch1))			
28		REPEAT localtree2(ch) UNTIL [TCV_Cnt = 4]			
29		(TCV_HoaccPara := OM_GetHoaccPara(ch))			
30		+Check_hoaccTiming(TCV_HoaccPara, '0000000'B)			
31		+Check_hoaccPwr(TCV_HoaccPara, TCV_Pwrlvl_ho)			
		localtree2(ch : LOGICCH)			
32		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33	L_0251	[TCV_Hrf <> TSPX_HoRefH]		(F)	
34		(TCV_Cnt := TCV_Cnt + 1)			
35	L_0252	[TCV_Hrf = TSPX_HoRefH]		(P)	
36		(TCV_Cnt := TCV_Cnt + 1)			
		local_HoCMD			
37		(TCV_Tchtype := ’00001’B)			
38		[TSPC_PGSM OR TSPC_EGSM]			
39		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefH, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_pseudo_synchronised), ChMod_omit, RelTmdDif_01(TSPX_k2), TimingAdv_omit, CphMod_omit))		
40		[TSPC_DCS]			
41		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefH, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_pseudo_synchronised), ChMod_omit, RelTmdDif_01(TSPX_k2), TimingAdv_omit, CphMod_omit))		

Detailed Comments :
1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel.
2. Cell B with BCCH, CCCH, SDCCH4 and a traffic channel.
3. In cell A the timing advance = TSPX_y2.
4. pseudo−synch, rot = 1, nc1, = 0, real time diffrenece = 2*TSPX_k2 + 10., handover referemce = TSPX_HoRefH.
5. The Mobile Time Difference = (2*TSPX_k2 + TSPX_y2) mod 2 097 152 with tolerance of 2.
6. The time advance is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_7

Group : RR/

Purpose : To verify that when the MS is ordered to make a non−synchronised handover to another cell and is ordered to report on the time difference between the cells, that it does so correctly.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcD, C_Full)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_y3), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(TSPX_y3), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+StartCellB_ho(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_9, C_PLMN_2, C_LAC_spe, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, TSPX_k3, 0)			2.
7		+FullRateCh_B_1_pwr(C_Ass, TSPX_TmSltC, TSPX_TscC, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TSPX_PwrlvlA, TSPX_PwrlvlA, TimingAdv(20), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_chTch := C_FACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1, TCV_sacchTch1 := C_SACCHF_B_1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+PreEnterCCstateU10_r01(TimingAdv(TSPX_y3), TSPX_SDCCH4SubDef, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.
10	body	(TCV_Null := OM_SendNextOnHO(TCV_chTch1, 2))			
11		ACTIVATE(RcvHdOvAcc, OtherEventsFail_01)			
12		(TCV_nc :='010'B)			
13		(TCV_sacchTch2 := C_SACCHF_A_1)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15		+local_handoverCMD			4.
16		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_chTch1, TimingAdv(20))		
17		(TCV_L1Head := OM_GetL1Hd (TCV_sacchTch1))			
18		+ localtree(TCV_chTch1)			
19		+localtree1			
		localtree1			
20		L?DL_EstIn	DLEstInd(TCV_chTch1)		
21		L?DL_DatInHoCom (TCV_Td := DL_DatInHoCom.msg.motdif.value)	HndOvCmpRcv(TCV_chTch1, HandOverCmp_01)		
22		L!MDL_RelRq	MDLRelReq(TCV_chTch)		Release the original channel
23		+CheckMTDif(TCV_Td, TSPX_y3, TSPX_k3)			
24		[TCV_L1Head.ta = '0010100'B]			
25		+PostMainLinkRel(TCV_chTch1)			
26	L_0257	[TCV_L1Head.ta <> '0010100'B]		(F)	
27		+PostMainLinkRel(TCV_chTch1)			
		localtree(ch : LOGICCH)			
28		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		
29	L_0258	[TCV_Hrf <> TSPX_HoRefB]		(F)	
30	L_0259	[TCV_Hrf = TSPX_HoRefB]		(P)	
		local_handoverCMD			
31		(TCV_Tchtype := '00001'B)			
32		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefB, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
34		[TSPC_DCS]			
35		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefB, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
Detailed Comments : 1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel. 2. Cell B with BCCH, CCCH, SDCCH4 and a traffic channel. 3. In cell A the timing advance = TSPX_y3. 4. non−synch, rot = 1, nci = 0, handover reference = TSPX_HoRefB.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_8
Group : RR/
Purpose : To verify the function of timer T3124 and the contents in the message HANDOVER FAILURE
Configuration :
Default : OtherEventsFail_01
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcE, TSPX_MTChRateE)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(C_MsPwrLvl_8, 5))			HO cmd uses power level 8
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+CCConfigTCH_pwr(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH (C_arfcn_tchA), FreqTCH (C_arfcn_tchAd), TSPX_MSTxpwrMax)			
6		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 5, 1, 0, 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			2.
7		+FullRateCh_B_1_pwr(C_Ass, TSPX_TmSltC, TSPX_TscB, ChMod_speech, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), C_MsPwrLvl_8, C_MsPwrLvl_8, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubC, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.
10		(TCV_L1Head0 := OM_GetL1Hd(TCV_sacchTch))			
11	body	ACTIVATE (RcvHdOvAcc, OtherEventsFail_01)			
12		(TCV_nc :='010'B)			
13		(TCV_sacchTch2 := C_SACCHF_A_1)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15		+gsmOrDcs			4.
16		+localtree(TCV_chTch1)			
17		+ltree_continue			
		ltree_continue			
18		L?DL_EstIn	DLEstInd(TCV_chTch)		
19		(TCV_L1Head := OM_GetL1Hd(TCV_sacchTch))			
20		(TCV_Fn := OM_ReturnFn (TCV_chTch))			
21		L?DL_DatInHofl (TCV_Fn1 := DL_DatInHofl.fn)	HndOvFlRcv(TCV_chTch, HandOvFail_02)		5.
22		+Check_Time(3000)			
23	L_0260	[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]		(P)	6.
24		+PostMainLinkRel(TCV_chTch)			
25	L_0261	[TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]		(F)	
26		+PostMainLinkRel(TCV_chTch)			
		localtree(ch : LOGICCH)			
27		(TCV_Cnt := 0)			
28		REPEAT localtree1(ch) UNTIL [TCV_Cnt = 3]			
29		(TCV_HoaccPara := OM_GetHoaccPara(ch))			
30		+Check_hoaccPwr (TCV_HoaccPara, TCV_Pwrlvl_ho)			pwrlvl = 8
		localtree1(ch : LOGICCH)			
31		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		
32	L_0263	[TCV_Hrf <> TSPX_HoRefC]		(F)	
33		(TCV_Cnt := TCV_Cnt + 1)			
34	L_0264	[TCV_Hrf = TSPX_HoRefC]		(P)	
35		(TCV_Cnt := TCV_Cnt + 1)			
		gsmOrDcs			
36		(TCV_Tchtype := '00001'B)			
37		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
38		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscB, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
39		[TSPC_DCS]			
40		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscB, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

Detailed Comments :
1. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell A.
2. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell B.
3. To bring the MS into the U10 state.
4. Non−synchronised handover, power level = 8.
5. On old channel.
6. Power level is the old one (TSPX_MSTxpwrMax)

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_5_9
Group : RR/
Purpose : To verify the function of timer T3124 and the contents in the message HANDOVER FAILURE
Configuration :
Default : OtherEventsFail_01
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcF, TSPX_MTChRateF)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+CCConfigTCH_pwr(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH (C_arfcn_tchA), FreqTCH (C_arfcn_tchAd), TSPX_MSTxpwrMax)			
6		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_24, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
7		+FullRateCh_B_1_pwr(C_Ass, TSPX_TmSltC, TSPX_TscC, ChMod_speech,FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TSPX_PwrlvlA, TSPX_PwrlvlA, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
8		(TCV_Null := OM_Deactivate(C_FACCHF_B_1, C_SACCHF_B_1))			Cause layer 1 failure
9		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chTch1 := C_FACCHF_B_1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubDef, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.
11		(TCV_L1Head0 := OM_GetL1Hd(TCV_sacchTch))			
12	body	ACTIVATE (RcvHdOvAcc, OtherEventsFail_01)			
13		(TCV_nc :='010'B)			
14		(TCV_sacchTch2 := C_SACCHF_A_1)			
15		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
16		+gsmOrDcs			4.
17		+localtree(TCV_chTch1)			
18		+ltree_continue			
		ltree_continue			
19		L?DL_EstIn	DLEstInd(TCV_chTch)		
20		(TCV_L1Head := OM_GetL1Hd(TCV_sacchTch))			
21		(TCV_Fn := OM_ReturnFn(TCV_chTch))			
22		L?DL_DatInHofl (TCV_Fn1 := DL_DatInHofl.fn)	HndOvFlRcv(TCV_chTch, HandOvFail_02)		5.
23		+Check_Time(3000)			
24	L_0267	[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]		(P)	6.
25		+PostMainLinkRel(TCV_chTch)			
26	L_0268	[TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]		(F)	
27		+PostMainLinkRel(TCV_chTch)			
		localtree(ch : LOGICCH)			
28		(TCV_Cnt := 0)			
29		REPEAT localtree1(ch) UNTIL [TCV_Cnt = 2]			
30		(TCV_HoaccPara := OM_GetHoaccPara(ch))			
31		+Check_hoaccPwr (TCV_HoaccPara, TCV_Pwrlvl_ho)			
		localtree1(ch : LOGICCH)			
32		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv(ch, HandOverAcc_01)		
33	L_0270	[TCV_Hrf <> TSPX_HoRefC]		(F)	
34		(TCV_Cnt := TCV_Cnt + 1)			
35	L_0271	[TCV_Hrf = TSPX_HoRefC]		(P)	
36		(TCV_Cnt := TCV_Cnt + 1)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		gsmOrDcs			
37		(TCV_Tchtype := '00001'B)			
38		[TSPC_PGSM OR TSPC_EGSM]			
39		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
40		[TSPC_DCS]			
41		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefC, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

Detailed Comments :
1. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell A.
2. To setup BCCH, CCCH, SDCCH4 and a receiving only full rate traffic channel for cell B.
3. To bring the MS into the U10 state.
4. Non−synchronised handover, power level = 8.
5. On old channel.
6. Power level is the old one (TSPX_MSTxpwrMax)

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_6_1

Group : RR/

Purpose : To verify that the MS, after receiving a Frequency Redefinition message, starts using the new frequencies and hopping sequence at the time indicated in the message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard (900)			
2		+test1			
3		+test2			
4		+test3			
5		+test4			
6		+test5			
7		+test6			
8		[TSPC_DualRate]			
9		+test7			
10		+test8			
11		+test9			
12		[NOT TSPC_DualRate]			
		test1			
13		+sdcch8(Freq_rg18, Freq_rd18, TSPX_SDCCH8SubA,TSPX_TmSltA, TSPX_TscA, Ca2_g01, Ca3_g01, Ca2_d01, Ca3_d01, Ma1_g01, Ma2_g01, Ma3_g01, 6, 7, 91, ChDescrp_sdcch8_fh(TSPX_TmSltA, TSPX_TscA, TSPX_SDCCH8SubA, ’001001’B, ’000000’B))			1. R=1, K=1
		test2			
14		+sdcch8(Freq_rg19, Freq_rd19, TSPX_SDCCH8SubB,TSPX_TmSltB, TSPX_TscB, Ca2_g02, Ca3_g02, Ca2_d02, Ca3_d02, Ma1_g02, Ma2_g02, Ma3_g02, 2, 1, 42000, ChDescrp_sdcch8_fh(TSPX_TmSltB, TSPX_TscB, TSPX_SDCCH8SubB, ’000100’B, ’000000’B))			R=1, K=2
		test3			
15		+sdcch8(Freq_rg20, Freq_rd20, TSPX_SDCCH8SubC,TSPX_TmSltC, TSPX_TscC, Ca2_g03, Ca3_g03, Ca2_d03, Ca3_d03, Ma1_g03, Ma2_g03, Ma3_g03, 1, 3, 1000, ChDescrp_sdcch8_fh(TSPX_TmSltC, TSPX_TscC, TSPX_SDCCH8SubC, ’000010’B, ’000000’B))			R=1, K=3
		test4			
16		+tchf(Freq_rg21, Freq_rd21, TSPX_TmSltD, TSPX_TscD, Ca2_g04, Ca3_g04, Ca2_d04, Ca3_d04, Ma1_g04, Ma2_g04, Ma3_g04, 2, 3, 91, ChDescrp_tchf_fh(TSPX_TmSltD, TSPX_TscD, ’000110’B, ’000000’B))			2. R=2, K=1
		test5			
17		+tchf(Freq_rg22, Freq_rd22, TSPX_TmSltE, TSPX_TscE, Ca2_g05, Ca3_g05, Ca2_d05, Ca3_d05, Ma1_g05, Ma2_g05, Ma3_g05, 4, 2, 42000, ChDescrp_tchf_fh(TSPX_TmSltE, TSPX_TscE, ’000101’B, ’000000’B))			R=2, K=2

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		test6			
18		+tchf(Freq_rg23, Freq_rd23, TSPX_TmSltF, TSPX_TscF, Ca2_g06, Ca3_g06, Ca2_d06, Ca3_d06, Ma1_g06, Ma2_g06, Ma3_g06, 6, 4, 15000, ChDescrp_tchf_fh(TSPX_TmSltF, TSPX_TscF, ’001000’B, ’000000’B))			R=2, K=3
		test7			
19		+tchh(Freq_rg24, Freq_rd24, TSPX_TCHHSubDef,TSPX_TmSltG, TSPX_TscG, Ca2_g07, Ca3_g07, Ca2_d07, Ca3_d07, Ma1_g07, Ma2_g07, Ma3_g07, 7, 4, 91, ChDescrp_tchh_fh(TSPX_TmSltG, TSPX_TscG, TSPX_TCHHSubDef, ’000011’B, ’000000’B))			3. R=3, K=1
		test8			
20		+tchh(Freq_rg25, Freq_rd25, TSPX_TCHHSubA,TSPX_TmSltA, TSPX_TscA, Ca2_g08, Ca3_g08, Ca2_d08, Ca3_d08, Ma1_g08, Ma2_g08, Ma3_g08, 2, 5, 42000, ChDescrp_tchh_fh(TSPX_TmSltA, TSPX_TscA, TSPX_TCHHSubA, ’000111’B, ’000000’B))			R=3, K=2
		test9			
21		+tchh(Freq_rg26, Freq_rd26, TSPX_TCHHSubDef,TSPX_TmSltDef, TSPX_TscDef, Ca2_g09, Ca3_g09, Ca2_d09, Ca3_d09, Ma1_g09, Ma2_g09, Ma3_g09, 5, 3, 4000, ChDescrp_tchh_fh(TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, ’000001’B, ’000000’B))			R=3, K=3
		test(Ca2, Ca3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
22		+ltree_immass(Ma1, Chd)			
23		+Check(TCV_cchd1, Ma1, tm, Chd)			
24		+ltree_freqRedef(Ca2, Ma2, Maio2, tm , Chd)			
25		+ltree_freqRedef(Ca3, Ma3, Maio3, tm, Chd)			
26		+ltree_chkAndrelease(Ca3, Ma3, tm, Chd)			
		ltree_freqRedef(ca: CCHD; ma: MA; maio, tm : INTEGER; chd: CHD)			
27		[NOT TCV_Res]			
28		[TCV_Res]			
29		+ltree_fredef(ca, ma, maio, tm, chd)			
30		+Check(ca, ma, tm, chd)			
		ltree_chkAndrelease(ca: CCHD; ma: MA; tm : INTEGER; chd: CHD)			
31		[NOT TCV_Res]			
32		(TCV_Null := OM_StopCell(C_CellA))			
33		[TCV_Res]			
34		+PostMainLinkRel(TCV_chTch)			
35		(TCV_Null := OM_StopCell(C_CellA))			
		Check(ca: CCHD; ma: MA; tm : INTEGER; chd: CHD)			
36		(TCV_Res := OM_FHCHK(TCV_sacchTch, ca, ma, chd, tm, TCV_Fn))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37	L_0274	[NOT TCV_Res]		(F)	
38		+PostMainLinkRel(TCV_chTch)			
39	L_0275	[TCV_Res]		(P)	
		ltree_fredef(cchd: CCHD; ma : MA; maio, tm : INTEGER; chd: CHD)			
40		(TCV_Fn := OM_ComingFn(TCV_chTch), TCV_chd1 := chd, TCV_chd1.maio := INT_TO_BIT(maio, 6), TCV_Strt := OC_StartTime(TCV_Fn, tm, 0), TCV_Null := OM_SendNextOn(TCV_chTch, TCV_Fn), TCV_Null := OM_FreqDef(TCV_Strt, ma, TCV_chTch, TCV_chd1, cchd, TCV_Fn))			
41		L!DL_DatRqFrqre	FrqRedfSnd(TCV_chTch, FreqRedef_01(TCV_chd1, ma, TCV_Strt, cchd))		
		sdcch8(FqParag, FqParad : FRQPARA; SubCh:B_3; Tmslt : SN; Tsc : TSC; Cag2, Cag3, Cad2, Cad3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
42		+ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)			
43		+SDCCH8_A_1_nociph(SubCh, C_Immass, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
44		(TCV_chTch := TCV_ch, TCV_sacchTch := TCV_sacch8)			
45		+test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)			
		tchf(FqParag, FqParad : FRQPARA; Tmslt : SN; Tsc : TSC; Cag2, Cag3, Cad2, Cad3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
46		+ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)			
47		+FullRateCh_A_1_nociph(C_Immass, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
48		+test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)			
		tchh(FqParag, FqParad : FRQPARA; SubCh:B_1; Tmslt : SN; Tsc : TSC; Cag2, Cag3, Cad2, Cad3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
49		+ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)			
50		+HalfRateCh_A_1_nociph(SubCh, C_Immass, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
51		+test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_immass(ma1 : MA; chd : CHD)			
52		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
53		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
54		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
55		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_02(TCV_Rr, TCV_Fn, TimingAdv(30), chd, ma1))		
56		L?DL_EstInPgRes(TCV_Fn := DL_EstInPgRes.fn)	PagingRes(PagingRes_01)		
57		ACTIVATE(OtherEventsFail)			Restore Normal default
		ltree_idleupdated(FqPg, FqPd : FRQPARA; Cag2, Cag3, Cad2, Cad3 : CCHD)			
58		(TCV_CAgsm := Ca1_g01, TCV_freq := FqPg, TCV_CAgsm.rfl := TCV_freq.flst.fl, TCV_CAdcs := Ca1_g01, TCV_freq := FqPd, TCV_CAdcs.rfl := TCV_freq.flst.fl)			
59		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, TCV_CAgsm, TCV_CAdcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
60		[TSPC_PGSM OR TSPC_EGSM]			
61		(TCV_cchd1 := TCV_CAgsm, TCV_CAgsm := Cag2, TCV_CAdcs := Cag3)			4.
62		[TSPC_DCS]			
63		(TCV_cchd1 := TCV_CAdcs, TCV_CAgsm := Cad2, TCV_CAdcs := Cad3)			5.

Detailed Comments :
1. To perform test on SDCCH channel.
2. To perform test on TCH/F channel.
3. To perform test on TCH/H channel.
4. TCV_CAgsm, TCV_CAdcs contain two cell allocation values for GSM.
5. TCV_CAgsm, TCV_CAdcs contain two cell allocation values for DCS.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_7_1

Group : RR/

Purpose : To verify that the MS, in an RR connected state, acknowledging a CHANNEL MODE MODIFY message by sending a CHANNEL MODE MODIFY ACKNOWLEDGEMENT message specifying and switching to the correct mode.
- the new mode if that mode is supported
- the old mode if the new mode is not supported.

This shall be verified for the channel modes
- signalling only
- speech full rate
- data 9.6 Kb/s
- data 4.8 Kb/s full rate
- data 2.4 Kb/s full rate.

Configuration :

Default : OtherEventsFail

Comments : apply only to the MS supporting TCH/F.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+gsmOrDcs			
4		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30)))		2.
9		L?DL_EstInPgRes	PagingRes(PagingRes_r02)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11	body	L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_speech, TCV_chd1))		
12		[TSPC_Serv_TS11 OR TSPC_Serv_TS12]			
13	L_0276	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_speech, TCV_chd1))	(P)	
14		+localtree(ChMod_speech)			
15		[(NOT TSPC_Serv_TS11) AND (NOT TSPC_Serv_TS12)]			
16	L_0277	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_sign, TCV_chd1))	(P)	
17		+localtree(ChMod_sign)			
		localtree(chm : CHMOD)			
18		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_12k, TCV_chd1))		
19		[TSPC_96Data]			
20	L_0278	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1))	(P)	
21		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_6k, TCV_chd1))		
22		[TSPC_48DataF]			
23		+localtree2			
24		[NOT TSPC_48DataF]			
25	L_0279	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1))	(P)	
26		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_3k, TCV_chd1))		
27		[TSPC_24DataF]			
28	L_0280	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_3k, TCV_chd1))	(P)	
29		+localtree1			
30		[NOT TSPC_24DataF]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31	L_0281	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1))	(P)	
32		+localtree1			
33		[NOT TSPC_96Data]			
34	L_0282	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(chm, TCV_chd1))	(P)	
35		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_6k, TCV_chd1))		
36		[TSPC_48DataF]			
37		+localtree2			
38		[NOT TSPC_48DataF]			
39	L_0283	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(chm, TCV_chd1))	(P)	
40		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_3k, TCV_chd1))		
41		[TSPC_24DataF]			
42	L_0284	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_3k, TCV_chd1))	(P)	
43		+localtree1			
44		[NOT TSPC_24DataF]			
45	L_0285	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(chm, TCV_chd1))	(P)	
46		+localtree1			
		localtree1			
47		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_sign, TCV_chd1))		
48	L_0286	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_sign, TCV_chd1))	(P)	
49		+PostMainLinkRel(TCV_chTch)			
		localtree2			
50	L_0287	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_6k, TCV_chd1))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
51		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_3k, TCV_chd1))		
52		[TSPC_24DataF]			
53	L_0288	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_3k, TCV_chd1))	(P)	
54		+localtree1			
55		[NOT TSPC_24DataF]			
56	L_0289	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_6k, TCV_chd1))	(P)	
57		+localtree1			
		gsmOrDcs			
58		[TSPC_PGSM OR TSPC_EGSM]			
59		(TCV_chd1 := ChDescrp_nfh('00001'B, TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchA))			
60		[TSPC_DCS]			
61		(TCV_chd1 := ChDescrp_nfh('00001'B, TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchAd))			
Detailed Comments : 1. Default system infirmations for RR testing. 2. TCH/F channel.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_7_2

Group : RR/

Purpose : To verify that the MS, in an RR connected state, acknowledges a CHANNEL MODE MODIFY message by sending a CHANNEL MODE MODIFY ACKNOWLEDGEMENT message specifying and switches to the correct mode
- the new mode if that mode is supported
- the old mode if the new mode is not supported.

This shall be verified for the channel modes
- signalling only
- speech half rate
- data 4.8 Kb/s half rate
- data 2.4 Kb/s half rate

Configuration :

Default : OtherEventsFail

Comments : apply only to the MS supporting TCH/H.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+gsmOrDcs			
4		+HalfRateCh_A_1_nociph(TSPX_TCHHSubA, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r14(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30)))		2.
9		L?DL_EstInPgRes	PagingRes(PagingRes_r02)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_02(ChMod_speech, TCV_chd1))		
12	L_0290	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_speech, TCV_chd1))	(P)	
13		[TSPC_HalfRateSpeech]			
14	L_0291	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_speech, TCV_chd1))	(P)	
15		+localtree(ChMod_speech)			
16		[NOT TSPC_HalfRateSpeech]			
17	L_0292	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_sign, TCV_chd1))	(P)	
18		+localtree(ChMod_sign)			
		localtree(chm : CHMOD)			
19		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_02(ChMod_6k, TCV_chd1))		
20		[TSPC_48DataH]			
21		+localtree2			
22		[NOT TSPC_48DataH]			
23	L_0293	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(chm, TCV_chd1))	(P)	
24		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_02(ChMod_3k, TCV_chd1))		
25		[TSPC_24DataH]			
26	L_0294	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_3k, TCV_chd1))	(P)	
27		+localtree1			
28		[NOT TSPC_24DataH]			
29	L_0295	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(chm, TCV_chd1))	(P)	
30		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_02(ChMod_sign, TCV_chd1))		
32	L_0296	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_sign, TCV_chd1))	(P)	
33		+PostMainLinkRel(TCV_chTch)			
		localtree2			
34	L_0297	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_6k, TCV_chd1))	(P)	
35		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_02(ChMod_3k, TCV_chd1))		
36		[TSPC_24DataH]			
37	L_0298	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_3k, TCV_chd1))	(P)	
38		+localtree1			
39		[NOT TSPC_24DataH]			
40	L_0299	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_02(ChMod_6k, TCV_chd1))	(P)	
41		+localtree1			
		gsmOrDcs			
42		[TSPC_PGSM OR TSPC_EGSM]			
43		(TCV_chd1 := ChDescrp_tchh_nfh(TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchA))			
44		[TSPC_DCS]			
45		(TCV_chd1 := ChDescrp_tchh_nfh(TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchAd))			
Detailed Comments : 1. Default system infirmations for RR testing. 2. TCH/H channel					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_8_1

Group : RR/

Purpose : To verify that the MS starts ciphering when it receives a CIPHERING MODE COMMAND message with Cipher Mode Setting = "Start Ciphering". To verify that it continues to use the old cipher key after it receives an AUTHENTICATION REQUEST whilst in ciphered mode.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_05, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4	body	[TSPC_Feat_A51]			
5		(TCV_CphAlg := ’000’B)			
6		+InitCall(TCV_Service)			
7		+localtree			2.
8		[TSPC_Feat_A52]			
9		(TCV_CphAlg := ’001’B)			
10		+InitCall(TCV_Service)			
11		+localtree			3.
12		[NOT TSPC_Feat_A52]			
13		[NOT TSPC_Feat_A51]			
14		[TSPC_Feat_A52]			
15		(TCV_CphAlg := ’001’B)			
16		+InitCall(TCV_Service)			
17		+localtree			3.
18		[NOT TSPC_Feat_A52]			
		localtree			
19		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
20		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
22		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
23		ACTIVATE(OtherEventsFail)			Restore Normal default
24		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
25		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
26		(TCV_CphMd.algid := TCV_CphAlg, TCV_Null := OM_CphMdChg(TCV_ch, TCV_CphMd, TCV_CphKey))			
27		L!DL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cphms.algid := TCV_CphAlg)	CphCmd(TCV_ch, CphModeCmd_01)		4.
28	L_0300	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	
29		L?DL_DatInSetup	SetupRcv(SetupInd_01)		
30		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
31	L_0301	L?DL_DatInAuthRes	AuthRes(AuthResponse)	(P)	
32		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. 1 cell with default parameters except Radio−Link−Timeout = 64.
2. Test the A5/1 algorithm.
3. Test the A5/2 algorithm.
4. Ciphering mode setting = "Start ciphering".

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_8_2

Group : RR/

Purpose : To verify that the MS does not start ciphering when it receives a CIPHERING MODE COMMAND message with Cipher Mode Setting = "No Ciphering".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_05, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4	body	+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubA, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDef, TSPX_RANDDef))		
11		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
12		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		2.
13		L?DL_DatInCphmCom	CphCom(CphModeCmp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14	L_0302	L?DL_DatInSetup	SetupRcv(SetupInd_01)	(P)	
15		+PostMainLinkRel(TCV_ch)			
Detailed Comments :		1. 1 cell with default parameters except Radio−Link−Timeout = 64. 2. Ciphering mode setting = "no ciphering".			

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_8_3

Group : RR/

Purpose : To verify that the MS uses the stored cipher key when it receives a CIPHERING MODE COMMAND without a preceding authentication procedure.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_05, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4	body	+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		(TCV_CphMd.algid := TSPX_CphAlgA)			2.
11		(TCV_Null := OM_CphMdChg(TCV_ch, TCV_CphMd, TCV_CphKey))			
12		L!DL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cphms.algid := TSPX_CphAlgA)	CphCmd(TCV_ch, CphModeCmd_01)		3.
13	L_0303	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14	L_0304	L?DL_DatInSetup	SetupRcv(SetupInd_01)	(P)	
15		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. 1 cell with default parameters except Radio−Link−Timeout = 64.
2. The cphering algorithm is chosen arbitrarily but controllable (TSPX_CphAlgA).
3. Ciphering mode setting = "Start ciphering", old stored Kc. (generated by TSPX_Ki and TPSX_RANDDef)

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_8_4

Group : RR/

Purpose : 1 To verify that when the MS is in the "not ciphered" mode and receives the CIPHERING MODE COMMAND message with Ciphering Mode Setting information element set to "start ciphering", the MS uses the cipher key stored in the SIM to start ciphering and deciphering with the algorithm indicated by the "algorithm identifier" field and that the MS responds with a CIPHERING MODE COMPLETE message.

2 To verify that the MS is ready to transmit the CIPHERING MODE COMPLETE message before 500ms after the end of the CIPHERING MODE COMMAND message.

3 To verify that when the MS receives an ASSIGNMENT COMMAND message containing a Cipher Mode Setting IE after receipt of a CIPHERING MODE COMMAND message, the MS shall perform the assignment, use the commanded mode and/or algorithm on the new channel, and not change the ciphering key.

4 To verify that when the MS receives a HANDOVER COMMAND message containing a Cipher Mode Setting IE after receipt of a CIPHERING MODE COMMAND message, the MS shall perform the handover, use the commanded mode and/or algorithm on the new channel, and not change the ciphering key

5 To verify that when the MS is in the "ciphered" mode and receives the CIPHERING MODE COMMAND message with Cipher Mode Setting IE set to "no ciphering", the MS loads the cipher key stored in the SIM into the ME, stops ciphering and deciphering and, responds with a CIPHERING MODE COMPLETE message.

6 To verify that the MS responds to an AUTHENTICATION REQUEST message with an AUTHENTICATION RESPONSE message and continues to use the cipher key obtained from the previous authentication procedure.

7 To verify that when the MS is in the "not ciphered" mode and receives the CIPHERING MODE COMMAND message with Ciphering Mode Setting information element set to "no ciphering", the does not start ciphering or deciphering, but does respond with a CIPHERING MODE COMPLETE message.

8 To verify that when the MS receives a HANDOVER COMMAND message and the handover fails, the MS sends a HANDOVER FAILURE message on the old channel using the old ciphering mode and (if ciphered) the old algorithm and old key.

9 To verify that when the MS receives an ASSIGNMENT COMMAND message and the assignment fails, the MS sends an ASSIGNMENT FAILURE message on the old channel using the old ciphering mode and (if ciphered) the old algorithm and old key.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNA, TSPX_RANDB, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Asynho, TSPX_TmSltA, TCV_tsc, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
4		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubB, C_Asynho, TSPX_TmSltB, TCV_tsc, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		(TCV_ch := OC_SubchOfSdcch8(TSPX_SDCCH8SubA, C_CellA, 1), TCV_ch1 := OC_SubchOfSdcch8(TSPX_SDCCH8SubB, C_CellA, 2), TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5), TCV_slot := TSPX_TmSltA)			
6		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
7		+ltree_body			
		ltree_body			
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
10		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
11		+ltree_ImmAss			
12		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
13		ACTIVATE(OtherEventsFail)			Restore Normal default
14		+localtree1			
15		+localtree2			
16		+localtree3			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		[(TSPC_Feat_A51 AND (NOT TSPC_Feat_A52)) OR ((NOT TSPC_Feat_A51) AND TSPC_Feat_A52)]			
18		+PostMainLinkRel(TCV_ch)			
19		[TSPC_Feat_A51 AND TSPC_Feat_A52]			
20		+localtree4			
		localtree1			
21		(TCV_Null := OM_CphMdChg(TCV_ch, CphMod_04(TSPX_CphAlgA), TCV_CphKey))			
22		L!DL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cphms.algid := TSPX_CphAlgA)	CphCmd(TCV_ch, CphModeCmd_01)		
23		L?DL_DatInCphmCom (TCV_Fn1 := DL_DatInCphmCom.fn)	CphCom(CphModeCmp_01)		
24		(TCV_Fn := OM_ReturnFn(TCV_ch))			
25		+Check_Time(500)			
26		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNB, TSPX_RANDB))		2.
27		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
28		+ltree_HndOv0			
29		+handoverAcc(TCV_ch1)			
30		L?DL_EstIn	DLEstInd(TCV_ch1)		
31	L_0306	L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch1, HandOverCmp_01)	(P)	
32		L!MDL_RelRq	MDLRelReq(TCV_ch)		Release the original channel
		localtree2			
33		(TCV_Null := OM_CphMd(TCV_ch, CphMod_04(TSPX_CphAlgB), TCV_CphKey))			
34		+ltree_Asgn1			
35		+AssCh_complete(TCV_ch1,TCV_ch,TCV_AssCmd)			3.
36		(TCV_Null := OM_CphMdChg(TCV_ch, CphMod_02, TCV_CphKey))			
37		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		4.
38		L?DL_DatInCphmCom (TCV_Fn1 := DL_DatInCphmCom.fn)	CphCom(CphModeCmp_01)		
39		(TCV_Fn := OM_ReturnFn(TCV_ch))			
40		+Check_Time(500)			
41		(TCV_CphKey := OC_CphKeyGen(TSPX_Ki, TSPX_RANDB), TCV_Null := OM_CphMd(TCV_ch1, CphMod_04(TSPX_CphAlgC), TCV_CphKey))			
42		+ltree_HndOv1			5.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
43		+handoverAcc(TCV_ch1)			
44		L?DL_EstIn	DLEstInd(TCV_ch1)		
45	L_0308	L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch1, HandOverCmp_01)	(P)	
46		L!MDL_RelRq	MDLRelReq(TCV_ch)		Release the original channel
47		L!DL_DatRqIdRq	IDReq(TCV_ch1, IDRequest_01('0010'B))		
48		L?DL_DatInIdRes	IDRes(IDResponse_01)		
49		(TCV_Null := OM_CphMd(TCV_ch, CphMod_04(TSPX_CphAlgC), TCV_CphKey))			
50		+ltree_HndOv2			6.
51		+handoverAcc(TCV_ch)			
52		L?DL_EstIn	DLEstInd(TCV_ch)		
53		L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch, HandOverCmp_01)		
54		L!MDL_RelRq	MDLRelReq(TCV_ch1)		Release the original channel
		localtree3			
55		(TCV_Null := OM_CphMd(TCV_ch1, CphMod_02, TCV_CphKey))			
56		+ltree_Asgn2			7.
57		+AssCh_complete(TCV_ch,TCV_ch1,TCV_AssCmd)			
58		L!DL_DatRqCphmCmd	CphCmd(TCV_ch1, CphModeCmd_02)		
59		L?DL_DatInCphmCom (TCV_Fn1 := DL_DatInCphmCom.fn)	CphCom(CphModeCmp_01)		
60		(TCV_Fn := OM_ReturnFn(TCV_ch1))			
61		+Check_Time(500)			
62		L!DL_DatRqAuthRq	AuthReq(TCV_ch1, AuthRequest(TSPX_CKSNC, TSPX_RANDC))		8.
63		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
64		(TCV_Null := OM_CphMd(TCV_ch, CphMod_04(TSPX_CphAlgD), TCV_CphKey))			
65		+ltree_HndOv3			9.
66		+handoverAcc(TCV_ch)			
67		L?DL_EstIn	DLEstInd(TCV_ch)		
68	L_0310	L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch, HandOverCmp_01)	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
69		(TCV_Null := OM_FreeResource(TCV_ch1))			
70		+ltree_HndOv0			10.
71		L?DL_EstIn	DLEstInd(TCV_ch)		
72	L_0311	L?DL_DatInHofl	HndOvFlRcv(TCV_ch, HandOvFail_01)	(P)	
73		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0010'B))		
74		L?DL_DatInIdRes	IDRes(IDResponse_01)		
75		+ltree_Asgn2			11.
76		+AssCh_failure(TCV_ch,TCV_AssCmd,TRUE)			
		localtree4			
77		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubB, C_Asynho, TSPX_TmSltB, TCV_tsc, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
78		(TCV_ch1 := OC_SubchOfSdcch8(TSPX_SDCCH8SubB, C_CellA, 2), TCV_Null := OM_CphMd(TCV_ch1, CphMod_04(TSPX_CphAlgE), TCV_CphKey))			
79		+ltree_Asgn3			
80		+AssCh_complete(TCV_ch,TCV_ch1,TCV_AssCmd)			
81		(TCV_Null := OM_CphMd(TCV_ch, CphMod_04(TSPX_CphAlgD), TCV_CphKey))			
82		+ltree_HndOv4			
83		+handoverAcc(TCV_ch)			
84		L?DL_EstIn	DLEstInd(TCV_ch)		
85	L_0312	L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch, HandOverCmp_01)	(P)	
86		L!MDL_RelRq	MDLRelReq(TCV_ch1)		Release the original channel
87		+PostMainLinkRel(TCV_ch)			
		handoverAcc(ch : LOGICCH)			
88		L?DL_RacInHoacc	HndOvAccRcv(ch, HandOverAcc_01)		
89		L?DL_RacInHoacc	HndOvAccRcv(ch, HandOverAcc_01)		
90		L?DL_RacInHoacc	HndOvAccRcv(ch, HandOverAcc_01)		
91		L?DL_RacInHoacc	HndOvAccRcv(ch, HandOverAcc_01)		
		ltree_ImmAss			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
92		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_sdcch8(TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TSPX_SDCCH8SubA, TCV_tch_arfcn, TimingAdv(30)))		
		ltree_Asgn1			
93		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
94		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, 9, TCV_tch_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_04iei(TSPX_CphAlgB)))			
		ltree_Asgn2			
95		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubB)), 5))			
96		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, 9, TCV_tch_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_02iei))			
		ltree_Asgn3			
97		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubB)), 5))			
98		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, 9, TCV_tch_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_04iei(TSPX_CphAlgE)))			
		ltree_HndOv0			
99		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubB)), 5))			
100		[TSPC_PGSM OR TSPC_EGSM]			
101		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, C_NCC, C_BCC, C_arfcnA,TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_02iei))		
102		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
103		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, C_NCC, C_BCC, C_arfcnAd, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_02iei))		
		ltree_HndOv1			
104		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubB)), 5))			
105		[TSPC_PGSM OR TSPC_EGSM]			
106		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, C_NCC, C_BCC, C_arfcnA, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgC)))		
107		[TSPC_DCS]			
108		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltB, TCV_tsc, C_NCC, C_BCC, C_arfcnAd, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgC)))		
		ltree_HndOv2			
109		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
110		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
111		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnA, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgC)))		
112		[TSPC_DCS]			
113		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnAd, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgC)))		
		ltree_HndOv3			
114		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
115		[TSPC_PGSM OR TSPC_EGSM]			
116		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnA, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgD)))		
117		[TSPC_DCS]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
118		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnAd, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgD)))		
		ltree_HndOv4			
119		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			
120		[TSPC_PGSM OR TSPC_EGSM]			
121		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnA, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgD)))		
122		[TSPC_DCS]			
123		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnAd, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_04iei(TSPX_CphAlgD)))		

Detailed Comments :
1. 1 cell, default parameters.
2. New ciphering key sequence number and new ciphering key L.
3. New SDCCH8 subchannel different from the one in use, start ciphering.
4. Load new key L, no ciphering.
5. New SDCCH8 subchannel different from the one in use, start ciphering.
6. New SDCCH8 subchannel different from the one in use, start ciphering.
7. New SDCCH8 subchannel different from the one in use, no ciphering.
8. To generate new ciphering key M.
9. New SDCCH8 subchannel different from the one in use, start ciphering.
10. New SDCCH8 subchannel different from the one in use, no ciphering, new channel not activated.
11. New SDCCH8 subchannel different from the one in use, no ciphering, new channel not activated.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_8_5

Group : RR/

Purpose : To verify that the MS supplies its IMEISV in the CIPHERING MODE COMPLETE message when it receives a CIPHERING MODE COMMAND message with a Cipher Response bit set to 'IMEISV shall be included'. To verify that the MS does not supply any Mobile Identity IE in the CIPHERING MODE COMPLETE message when it receives a CIPHERING MODE COMMAND message with a Cipher Response bit set to 'IMEISV shall not be included'.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		2.
7		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9	body	L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_02)		
10	L_0313	L?DL_DatInCphmCom	CphCom(CphModeCmp_02)	(P)	
11		L!DL_DatRqCphmCmd	CphCmd(TCV_ch, CphModeCmd_03)		
12	L_0314	L?DL_DatInCphmCom	CphCom(CphModeCmp_03)	(P)	
13		+PostMainLinkRel(TCV_ch)			

Detailed Comments :

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_11_1

Group : RR/

Purpose : To verify that if the RF power capability or any other capability indicated in a Classmark IE of the MS is changed during a call, the change is communicated on the DCCH to the network. To verify that if the RF power capability or any other capability indicated in a Classmark IE of the MS is changed in idle mode, the out of date capabilities are not communicated to the network during RR connection establishment.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5	body	(TCV_Null := OO_AddPwrAmp())			
6		+InitCall(TCV_Service)			
7		+subtree1			
8		(TCV_Null := OO_RemvPwrAmp())			
9		+subtree2			
		subtree1			
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
11		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
12		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_0315	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_02)	(P)	2.
14		ACTIVATE(OtherEventsFail)			Restore Normal default
15		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
16		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
17		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
18		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
19		+continue			
		continue			
20		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
21		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
22		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
23		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
		subtree2			
24	L_0316	L?DL_UdatInClmChn	ClassChgURcv(ClassChange_01)	(P)	5.
25		(TCV_Null := OO_AddPwrAmp())			
26	L_0317	L?DL_UdatInClmChn	ClassChgURcv(ClassChange_02)	(P)	6.
27		+PostMainLinkRel(TCV_chTch)			
28		+localtree3			
		localtree3			
29		(TCV_Null := OO_RemvPwrAmp())			
30		START T_dly(12000)			
31		?TIMEOUT T_dly			
32		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
33		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
34		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
35		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
36	L_0318	L?DL_EstInPgRes	PagingRes(PagingRes_03(TSPX_CKSNDef))	(P)	7.
37		ACTIVATE(OtherEventsFail)			Restore Normal default
38		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. The power capability is the one with RF amplification.
3. To setup a physical channel as full rate traffic channel for full rate bearer capability.
4. To setup a physical channel as half rate traffic channel for half rate bearer capability.
5. The power capability is the original one without RF amplification.
6. The power capability is the one with RF amplification.
7. The power capability is the original one without RF amplification.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_11_2

Group : RR/

Purpose : To verify that if the network requests the MS to supply all its classmark information then this information is communicated on the DCCH to the network.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3	body	+MM_PwrOrSimOn (C_SIMneedRmv)			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubA, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
7		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_05)		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9		L!DL_DatRqClmEnq START T_dly1(300)	ClassMkEnq_01(TCV_ch)		
10	L_0319	L?DL_DatInClmChn CANCEL T_dly1	ClassChgDRcv(ClassChange_03)	(P)	2.
11		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, C_LAC_1))		
12		+PostMainLinkRel(TCV_ch)			
13	L_0320	?TIMEOUT T_dly1		(F)	3.
14		+PostMainLinkRel(TCV_ch)			

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Test Case Dynamic Behaviour	
Detailed Comments :	1. To change the IMSI attach/detach flag to 1. 2. The expected CLASSMARK CHANGE message received before 300 ms after the CLASSMARK ENQUIRY, pass. 3. The expected message not received with 300 ms, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_12_1

Group : RR/

Purpose : To verify that the MS is able to correctly release an SDCCH after having received a CHANNEL RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
4		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubB, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
5	body	+subtree1			
6		+subtree2			
		subtree1			
7		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		+local_immass			
11		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
14		L?DL_RelIn	DLRelInd_01		
15		START T_dly(3000)			
16	L_0321	L?OTHERWISE		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17	L_0322	?TIMEOUT T_dly		(P)	
		subtree2			
18		START T_dly(12000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
23		+local_immass			
24	L_0323	L?DL_EstInPgRes	PagingRes(PagingRes_01)	(P)	
25		ACTIVATE(OtherEventsFail)			Restore Normal default
26		+PostMainLinkRel(TCV_ch)			
		local_immass			
27		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubB, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
Detailed Comments : 1. No any L 2 messages.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_12_2

Group : RR/

Purpose : To verify that the MS is able to correctly release a SDCCH after having received a CHANNEL RELEASE message, even if the SS does not L2 acknowledge the L2 DISC frame.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
4		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubG, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
5	body	+subtree1			
6		+subtree2			
		subtree1			
7		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
9		+local_immass			
10		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
11		(TCV_Res := OM_NoUAforDISC(TCV_ch))			
12		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
13		L?DL_RelIn	DLRelInd_01		
14		L?DL_RelIn	DLRelInd_01		
15		START T_dly(2000)			
16		?TIMEOUT T_dly			
17		(TCV_Res := OM_ResumUAforDISC(TCV_ch))			
18		START T_dly(3000)			
19	L_0324	L?OTHERWISE		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20	L_0325	?TIMEOUT T_dly		(P)	
21		L!MDL_RelRq	MDLRelReq(TCV_ch)		Local end release
		subtree2			
22		START T_dly(12000)			
23		?TIMEOUT T_dly			
24		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
26		+local_immass			
27	L_0326	L?DL_EstInPgRes	PagingRes(PagingRes_01)	(P)	
28		+PostMainLinkRel(TCV_ch)			
		local_immass			
29		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubG, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
Detailed Comments : 1. Use TSPX_SDCCH8SubG.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_12_3

Group : RR/

Purpose : To verify that the MS is able to correctly release a full−rate TCH after having received a CHANNEL RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+gsmOrDcs			
4		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5	body	+subtree1			
6		+subtree2			
		subtree1			
7		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30)))		
11		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		L!DL_DatRqChRel	ChRel(TCV_chTch, ChRelease_01)		
14		L?DL_RelIn	DLRelInd_01		
15		START T_dly(3000)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16	L_0327	L?OTHERWISE		(F)	
17	L_0328	?TIMEOUT T_dly		(P)	
		subtree2			
18		START T_dly(12000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30)))		
24	L_0329	L?DL_EstInPgRes	PagingRes(PagingRes_01)	(P)	
25		ACTIVATE(OtherEventsFail)			Restore Normal default
26		+PostMainLinkRel(TCV_chTch)			
		gsmOrDcs			
27		[TSPC_PGSM OR TSPC_EGSM]			
28		(TCV_chd1 := ChDescrp_nfh('00001'B, TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchA))			
29		[TSPC_DCS]			
30		(TCV_chd1 := ChDescrp_nfh('00001'B, TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchAd))			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_12_4

Group : RR/

Purpose : To verify that the MS is able to correctly release a TCH/F after having received a CHANNEL RELEASE message, even if the SS does not L2 acknowledge the L2 DISC frame.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_set_channel_descr			
4		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltC, TSPX_TscC, ChMod_speech, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5	body	+subtree1			
6		+Varinit_tch(C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(TCV_tch_arfcn), FreqTCH(TCV_tch_arfcn), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
8		+subtree2			
		subtree1			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
11		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30)))		
12		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
13		(TCV_Res := OM_NoUAforDISC(TCV_chTch))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		L!DL_DatRqChRel	ChRel(TCV_chTch, ChRelease_01)		
15		L?DL_RelIn	DLRelInd_01		
16		L?DL_RelIn	DLRelInd_01		
17		START T_dly(2000)			
18		?TIMEOUT T_dly			
19		(TCV_Res := OM_ResumUAforDISC(TCV_chTch))			
20		START T_dly(3000)			
21	L_0330	L?OTHERWISE		(F)	
22	L_0331	?TIMEOUT T_dly		(P)	
23		L!MDL_RelRq	MDLRelReq(TCV_ch)		local end release
		subtree2			
24		START T_dly(12000)			
25		?TIMEOUT T_dly			
26		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
27		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
28		+local_immass			
29	L_0332	L?DL_EstInPgRes	PagingRes(PagingRes_01)	(P)	
30		+PostMainLinkRel(TCV_ch)			
		local_set_channel_descr			
31		[TSPC_PGSM OR TSPC_EGSM]			
32		(TCV_chd1 :=ChDescrp_nfh('00001'B, TSPX_TmSltC, TSPX_TscC, C_arfcn_tchA))			
33		[TSPC_DCS]			
34		(TCV_chd1 := ChDescrp_nfh('00001'B, TSPX_TmSltC, TSPX_TscC, C_arfcn_tchAd))			
		local_immass			
35		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_tch_arfcn))		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_1

Group : RR/

Purpose : To verify that the MS, after receiving an ASSIGNMENT COMMAND message with a starting time and channel descriptions both for before and after the starting time, and ready to access before the indicated time, performs correctly the assignment using the description for before the time, and eventually starts using the frequency parameters for after the time at the time indicated in the message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immass, TSPX_TmSltA, TSPX_TscA, ChMod_sign, FreqSDCCH8_rg1, FreqSDCCH8_rd1, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
4		+local_set_channel_for_ass			3.
5	body	+ltree_body			
		ltree_body			
6		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r27(TCV_Rr, TCV_Fn, TSPX_TmSltA, TSPX_TscA, TimingAdv(30)))		4.
10		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		(TCV_Fn := OM_ComingFn (TCV_ch), TCV_Null := OM_SendNextOn (TCV_ch, TCV_Fn), TCV_Strt := OC_StartTime(TCV_Fn, C_StrT_1000, 1))			5.
13		(TCV_AssCmd := AsgnCmd_r14(TSPX_TmSltB, TSPX_TscB, TCV_Strt), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r06, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp1, TSPX_TmSltB, TSPX_TscB, INT_TO_BIT(TSPX_Maio2, 6), INT_TO_BIT(TSPX_Hsn2, 6)), TCV_cchd1, TCV_Fn))			
14		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
15		+local_hoppingCHK			6.
16		+PostMainLinkRel(TCV_WorkingCh)			
		local_hoppingCHK			
17		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r06, ChDescrp_fh(TSPX_Chtp1, TSPX_TmSltB, TSPX_TscB, INT_TO_BIT(TSPX_Maio2, 6), INT_TO_BIT(TSPX_Hsn2, 6)), C_StrT_1000, TCV_Fn))			
18	L_0333	[TCV_Res]		(P)	
19	L_0334	[NOT TCV_Res]		(F)	
		local_set_channel_for_ass			
20		(TCV_n := BIT_TO_INT(TSPX_Chtp1))			
21		[TCV_n = 1]			
22		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltB, TSPX_TscB, ChMod_sign, Freq_rg2, Freq_rd2,TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
23		(TCV_WorkingCh := TCV_chTch)			
24		+Set_CellChDescr(C_CellA)			
25		[(TCV_n = 2) OR (TCV_n = 3)]			
26		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp1, 1), C_Ass, TSPX_TmSltB, TSPX_TscB, ChMod_sign, Freq_rg2, Freq_rd2, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
27		(TCV_WorkingCh := TCV_chTch)			
28		+Set_CellChDescr(C_CellA)			
29		[(TCV_n >= 8) AND (TCV_n <= 15)]			
30		+SDCCH8_A_2_nociph(OC_LeastBits(TSPX_Chtp1, 3), C_Ass, TSPX_TmSltB, TSPX_TscB, ChMod_r01, Freq_rg2, Freq_rd2, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
31		(TCV_WorkingCh := TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
32		+Set_CellChDescr(C_CellA)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as hopping SDCCH8 channel, hopping parameters defined by PIXIT.
3. To setup the before time and after time channels for ASSIGNMENT COMMAND.
4. To assign the hopping SDCCH8 channel.
5. To calculate the STARTING TIME.
6. To check whether the after time frequency hopping is correct at the RF burst level.
7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for before time.
8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for before time.
9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for before time.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_2

Group : RR/

Purpose : To verify that the MS, after receiving an ASSIGNMENT COMMAND message with a starting time and channel descriptions both for before and after the starting time, performs correctly the assignment using the description for after the time if the indicated time has already elasped when the Mobile Station is ready to trasmit.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubB, C_Immass, TSPX_TmSltB, TSPX_TscB, ChMod_sign, FreqSDCCH8_rg2, FreqSDCCH8_rd2, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
4		+local_set_channelForAss			3.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r28(TCV_Rr, TCV_Fn, TSPX_TmSltB, TSPX_TscB, TimingAdv(30)))		4.
9		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		(TCV_Fn := OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn))			5.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		(TCV_AssCmd := AsgnCmd_r15(TSPX_TmSltC, TSPX_TscC, TSPX_TmSltC, TSPX_TscC, OC_StartTime(TCV_Fn, 5, 1)))			
13		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
14		+local_continue			6.
15		+PostMainLinkRel(TCV_ch Tch)			
		local_continue			
16		(TCV_Res := OM_FHCHK(TCV_chTch, TCV_cchd1, MoblAllc_r09, ChDescrp_fh(TSPX_Chtp2, TSPX_TmSltC, TSPX_TscC, INT_TO_BIT(TSPX_Maio5, 6), INT_TO_BIT(TSPX_Hsn5, 6)), 5, TCV_Fn))			
17	L_0335	[TCV_Res]		(P)	
18	L_0336	[NOT TCV_Res]		(F)	
		local_set_channelForAss			
19		(TCV_n := BIT_TO_INT(TSPX_Chtp2))			
20		[TCV_n = 1]			
21		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltC, TSPX_TscC, ChMod_r02, Freq_rg4, Freq_rd4, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
22		+Set_CellChDescr(C_CellA)			
23		[(TCV_n = 2) OR (TCV_n = 3)]			
24		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp2, 1), C_Ass, TSPX_TmSltC, TSPX_TscC, ChMod_r02, Freq_rg4, Freq_rd4, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
25		+Set_CellChDescr(C_CellA)			
26		[(TCV_n >= 8) AND (TCV_n <= 15)]			
27		+SDCCH8_A_2_nociph(OC_LeastBits(TSPX_Chtp2, 3), C_Ass, TSPX_TmSltC, TSPX_TscC, ChMod_r02, Freq_rg4, Freq_rd4, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
28		+Set_CellChDescr(C_CellA)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as hopping SDCCH8 channel, hopping parameters defined by PIXIT.
3. To setup the after time channels for ASSIGNMENT COMMAND.
4. To assign the hopping SDCCH8 channel.
5. To calculate the STARTING TIME.
6. To check whether the after time frequency hopping is correct at the RF burst level.
7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for after time.
8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for after time.
9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for after time.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_3

Group : RR/

Purpose : To verify that the MS, after receiving a FREQUENCY REDEFINITION message and then an ASSIGNMENT COMMAND message with a starting time and channel descriptions both for before and after the starting time, failling the assignment and returning on the old channel, and ready to access before the time indicated in the FREQUENCY REDEFINITION, resumes transmission on the channels used at the time of the reception of the FREQUENCF REDEFINITION message and eventually starts using the frequency parameters at the time indicated in the FREQUENCY REDEFINITION message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			2.
4	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
5		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r29(TCV_Rr, TCV_Fn, TSPX_TmSltD, TSPX_TscD, TimingAdv(30)))		
8		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+localtree			
		localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 5000, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp3, TSPX_TmSltD, TSPX_TscD, INT_TO_BIT(TSPX_Maio7, 6), INT_TO_BIT(TSPX_Hsn6, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r11, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))			3.
12		L!DL_DatRqFrqre	FrqRedfSnd(TCV_WorkingCh, FreqRedef_01(TCV_chd1, MoblAllc_r11, TCV_Strt, CellChDes_Omit))		4.
13		(TCV_AssCmd := AsgnCmd_r16(TSPX_TmSltE, TSPX_TscE, OC_StartTime(TCV_Fn, 4000, 1)))			
14		+AssCh_failure(TCV_WorkingCh, TCV_AssCmd, TRUE)			
15		+ltree_check			6.
16		+PostMainLinkRel(TCV_WorkingCh)			
		ltree_check			
17		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r11, TCV_chd1, 5000, TCV_Fn))			
18	L_0337	[TCV_Res]		(P)	
19	L_0338	[NOT TCV_Res]		(F)	
		local_channel_setup			
20		(TCV_n := BIT_TO_INT(TSPX_Chtp3))			
21		[TCV_n = 1]			
22		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg5, Freq_rd5, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
23		(TCV_WorkingCh := TCV_chTch)			
24		+Set_CellChDescr(C_CellA)			
25		[(TCV_n = 2) OR (TCV_n = 3)]			
26		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp3, 1), C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg5, Freq_rd5, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
27		(TCV_WorkingCh := TCV_chTch)			
28		+Set_CellChDescr(C_CellA)			
29		[(TCV_n >= 8) AND (TCV_n <= 15)]			
30		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp3, 3), C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg5, Freq_rd5, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		(TCV_WorkingCh := TCV_ch)			
32		+Set_CellChDescr(C_CellA)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To set two physical channels, one as hopping channel for immediate assignment another one as hopping channel for after time channel, parameters defined by PIXIT.
3. To calculate the starting time for frequency redifinition.
4. To send FREQUENCY REDIFINITION message.
5. To calculate the starting time and send the ASSIGNMENT COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.
6. To check whether the after time frequency hopping is correct at the RF burst level.
7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_4

Group : RR/

Purpose : To verify that the MS, after receiving a FREQUENCY REDEFINITION message and then an ASSIGNMENT COMMAND message with a starting time and channel descriptions both for before and after the starting time, failing the assignment and returning on the old channel, and ready to access after the time indicated in the FREQUENCY REDEFINITION, resumes transmission using the frequency parameters indicated in the FREQUENCY REDEFINITION message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			2.
4	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r30(TCV_Rr, TCV_Fn, TSPX_TmSltF, TSPX_TscF, TimingAdv(30)))		
8		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+local_continue			
		local_continue			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 214, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp5, TSPX_TmSltF, TSPX_TscF, INT_TO_BIT(TSPX_Maio11, 6), INT_TO_BIT(TSPX_Hsn10, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r15, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))			
12		L!DL_DatRqFrqre	FrqRedfSnd(TCV_WorkingCh, FreqRedef_01(TCV_chd1, MoblAllc_r15, TCV_Strt, CellChDes_Omit))		4.
13		(TCV_AssCmd := AsgnCmd_r17(TSPX_TmSltF, TSPX_TscF, OC_StartTime(TCV_Fn, 5000, 1)))			
14		+AssCh_failure(TCV_WorkingCh, TCV_AssCmd, TRUE)			5.
15		+PostMainLinkRel(TCV_WorkingCh)			
		local_channel_setup			
16		(TCV_n := BIT_TO_INT(TSPX_Chtp5))			
17		[TCV_n = 1]			
18		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg7, Freq_rd7, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
19		(TCV_WorkingCh := TCV_chTch)			
20		+Set_CellChDescr(C_CellA)			
21		[(TCV_n = 2) OR (TCV_n = 3)]			
22		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp5, 1), C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg7, Freq_rd7, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
23		(TCV_WorkingCh := TCV_chTch)			
24		+Set_CellChDescr(C_CellA)			
25		[(TCV_n >= 8) AND (TCV_n <= 15)]			
26		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp5, 3), C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg7, Freq_rd7, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
27		(TCV_WorkingCh := TCV_ch)			
28		+Set_CellChDescr(C_CellA)			

Detailed Comments : 1. To setup a physical channel as BCCH, CCCH.
2. To set two physical channels, one as hopping channel for immediate assignment another one as hopping channel for after time channel, parameters defined by PIXIT. Note: Although the test case is designed for TCH/F, TCH/H & SDCCH8 the TSPX_Chtp5 should be assigned to an SDCCH8 subchannel because calculations of starting time T1 for TCH/F & TCH/H have not yet been carried out. No simple values can be defined.
3. To calculate the starting time for frequency redifinition.
4. To send FREQUENCY REDIFINITION message.

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Test Case Dynamic Behaviour
Detailed Comments : ... 5. To calculate the starting time and send the ASSIGNMENT COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester. 6. The expected ASSIGNMENT FAILURE message received on the channel defined by frequency redifinition. 7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment. 8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment. 9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_5

Group : RR/

Purpose : To verify that the MS, after receiving a HANDOVER COMMAND message with a starting time and channel descriptions both for before and after the starting time, and ready to access before the time performs correctly the handover using the description for before the time, and then starts using the frequency parameters for after the time at the the time indicated in the message.

Configuration :

Default : OtherEventsFail, RcvHdOvAcc

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+StartCellB(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, C_S0, TSPX_TscDef, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_1, C_NCC)			2.
4		+local_channel_setup			3.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r31(TCV_Rr, TCV_Fn, TSPX_TmSltG, TSPX_TscG, TimingAdv(30)))		
9		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+localcontinue			
		localcontinue			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		(TCV_Null := OM_StartMsrReport(TCV_sacch8))			
13		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_02)		
14		(TCV_Null := OM_StopMsrReport(TCV_sacch8), TCV_Fn := OM_ComingFn(TCV_ch), TCV_Strt := OC_StartTime(TCV_Fn, C_StrT_1000, 1), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_chd1 := ChDescrp_fh(TSPX_Chtp7, TSPX_TmSltDef, TSPX_TscDef, INT_TO_BIT(TSPX_Maio15, 6), INT_TO_BIT(TSPX_Hsn15, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r18iei, TCV_chTch, TCV_chd1, TCV_cchd1, TCV_Fn),TCV_Null:=OM_SendNextOnHO(TCV_chTch,2))			4.
15		ACTIVATE(RcvHdOvAcc, OtherEventsFail_01)			
16		(TCV_nc :='010'B)			
17		(TCV_sacchTch2 := TCV_sacch8)			
18		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
19		+local_sendHoCMD			
20		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_chTch, TimingAdv(30))		
21		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
22		L?DL_EstIn	DLEstInd(TCV_chTch)		
23		L?DL_DatInHoCom	HndOvCmpRcv(TCV_chTch, HandOverCmp_01)		
24		L!MDL_RelRq	MDLRelReq(TCV_ch)		Release the original channel
25		+ltree_Hoppingcheck			
26		+PostMainLinkRel(TCV_chTch)			
		ltree_Hoppingcheck			
27		(TCV_Res := OM_FHCHK(TCV_chTch, TCV_cchd1, MoblAllc_r18iei, TCV_chd1, C_StrT_1000, TCV_Fn))			
28	L_0339	[TCV_Res]		(P)	
29	L_0340	[NOT TCV_Res]		(F)	
		local_sendHoCMD			
30		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltDef, TSPX_TscDef, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp7, TSPX_Maio15, TSPX_Maio16, TSPX_Hsn15, TSPX_Hsn16, TSPX_HoRefA, TSPX_PwrlvlA, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r03, MoblAllc_r18iei, MoblAllc_r20, CphMod_02iei))		
32		[TSPC_DCS]			
33		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltDef, TSPX_TscDef, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp7, TSPX_Maio15, TSPX_Maio16, TSPX_Hsn15, TSPX_Hsn16, TSPX_HoRefA, TSPX_PwrlvlA, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r03, MoblAllc_r18iei, MoblAllc_r20, CphMod_02iei))		
		local_channel_setup			
34		(TCV_n := BIT_TO_INT(TSPX_Chtp7))			
35		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubB, C_Immass, TSPX_TmSltG, TSPX_TscG, ChMod_sign, Freq_rg9, Freq_rd9, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
36		[TCV_n = 1]			
37		+FullRateCh_B_1_nociph(C_Asynho, TSPX_TmSltDef, TSPX_TscDef, ChMod_r03, Freq_rg11, Freq_rd11, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			5.
38		+Set_CellChDescr(C_CellB)			
39		[(TCV_n = 2) OR (TCV_n = 3)]			
40		+HalfRateCh_B_1_nociph(OC_LeastBits(TSPX_Chtp7, 1), C_Asynho, TSPX_TmSltDef, TSPX_TscDef, ChMod_r03, Freq_rg11, Freq_rd11, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			6.
41		+Set_CellChDescr(C_CellB)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
42		[(TCV_n >= 8) AND (TCV_n <= 15)]			
43		+SDCCH8_B_1_nociph(OC_LeastBits(TSPX_Chtp7, 3), C_Asynho, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, Freq_rg11, Freq_rd11, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
44		+Set_CellChDescr(C_CellB)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH for cell A.
2. To setup a physical channel as BCCH, CCCH for cell B.
3. To setup a physical channel as SDCCH8 in cell A and setup 2 physical channels as hopping channels in cell B.
4. To get the future frame number for sending HANDOVER COMMAND and calculate starting time.
5. If the required channel is full rate channel, setup the before time full rate hopping channel.
6. If the required channel is half rate channel, setup the before time half rate hopping channel.
7. If the required channel is SDCCH8 channel, setup the before time SDCCH8 hopping channel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_6

Group : RR/

Purpose : To verify that the MS, after receiving a HANDOVER COMMAND message with a starting time and channel descriptions both for before and after the starting time, and ready to tramsmit after the indicated time, performs correctly the handover using the description for after the time.

Configuration :

Default : OtherEventsFail, RcvHdOvAcc

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+StartCellB(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, C_S0, TSPX_TscB, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_1, C_NCC)			2.
4		+local_config_channel			3.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r32(TCV_Rr, TCV_Fn, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30)))		
9		+local_continue			
		local_continue			
10		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		(TCV_Fn := OM_ComingFn(TCV_ch), TCV_Strt := OC_StartTime(TCV_Fn, 5, 1), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_Null:=OM_SendNextOnHO(TCV_chTch, 2))			4.
13		ACTIVATE(RcvHdOvAcc, OtherEventsFail_01)			
14		(TCV_nc :='010'B)			
15		(TCV_sacchTch2 := TCV_sacch8)			
16		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
17		+local_sendHoCMD			
18		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_chTch, TimingAdv(30))		
19		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_01)		
20		L?DL_EstIn	DLEstInd(TCV_chTch)		
21		L?DL_DatInHoCom	HndOvCmpRcv(TCV_chTch, HandOverCmp_01)		
22		L!MDL_RelRq	MDLRelReq(TCV_ch)		Release the original channel
23		+ltree_Hoppingcheck			
24		+PostMainLinkRel(TCV_chTch)			
		ltree_Hoppingcheck			
25		(TCV_Res := OM_FHCHK(TCV_chTch, TCV_cchd1, MoblAllc_r22, ChDescrp_fh(TSPX_Chtp8, TSPX_TmSltB, TSPX_TscB, INT_TO_BIT(TSPX_Maio18, 6), INT_TO_BIT(TSPX_Hsn18, 6)), 5, TCV_Fn))			
26	L_1039	[TCV_Res]		(P)	
27	L_1040	[NOT TCV_Res]		(F)	
		local_sendHoCMD			
28		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltB, TSPX_TscB, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp8, TSPX_Maio18, TSPX_Maio19, TSPX_Hsn18, TSPX_Hsn19, TSPX_HoRefA, TSPX_PwrlvlB, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r04, MoblAllc_r22, MoblAllc_r23, CphMod_omit))		
30		[TSPC_DCS]			
31		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltB, TSPX_TscB, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp8, TSPX_Maio18, TSPX_Maio19, TSPX_Hsn18, TSPX_Hsn19, TSPX_HoRefA, TSPX_PwrlvlB, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r04, MoblAllc_r22, MoblAllc_r23, CphMod_omit))		
		local_config_channel			
32		(TCV_n := BIT_TO_INT(TSPX_Chtp8))			
33		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubC, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, Freq_rg12, Freq_rd12, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
34		[TCV_n = 1]			
35		+FullRateCh_B_1_nociph(C_Asynho, TSPX_TmSltB, TSPX_TscB, ChMod_r04, Freq_rg13, Freq_rd13, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			5.
36		+Set_CellChDescr(C_CellB)			
37		[(TCV_n = 2) OR (TCV_n = 3)]			
38		+HalfRateCh_B_1_nociph(OC_LeastBits(TSPX_Chtp8, 1), C_Asynho, TSPX_TmSltB, TSPX_TscB, ChMod_r04, Freq_rg13, Freq_rd13, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			6.
39		+Set_CellChDescr(C_CellB)			
40		[(TCV_n >= 8) AND (TCV_n <= 15)]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		+SDCCH8_B_1_nociph(OC_LeastBits(TSPX_Chtp8, 3), C_Asynho, TSPX_TmSltB, TSPX_TscB, ChMod_sign, Freq_rg13, Freq_rd13, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
42		+Set_CellChDescr(C_CellB)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH for cell A.
2. To setup a physical channel as BCCH, CCCH for cell B.
3. To setup a physical channel as SDCCH8 in cell A and setup a physical channel as hopping channels in cell B.
4. To get the future frame number for sending HANDOVER COMMAND and calculate starting time.
5. If the required channel is full rate channel, setup the after time full rate hopping channel.
6. If the required channel is half rate channel, setup the after time half rate hopping channel.
7. If the required channel is SDCCH8 channel, setup the after time SDCCH8 hopping channel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_7

Group : RR/

Purpose : To verify that the MS, after receiving a FREQUENCY REDEFINITION message and then an HANDOVER COMMAND message with a starting time and channel descriptions both for before and after the starting time, failing the handover, and ready to access the old channel before the time indicated in the FREQUENCY REDEFINITION, resumes transmission on the channels used at the time of the reception of the FREQUENCY REDEFINITION message and eventually starts using the new frequency parameters at the time indicated in the FREQUENCY REDEFINITION message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			3.
4		+StartCellB(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TSPX_TmSltD, TSPX_TscD, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_1, C_NCC)			2.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r33(TCV_Rr, TCV_Fn, TSPX_TmSltC, TSPX_TscC, TimingAdv(30)))		
9		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		+localtree			
		localtree			
12		(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 5000, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp9, TSPX_TmSltC, TSPX_TscC, INT_TO_BIT(TSPX_Maio21, 6), INT_TO_BIT(TSPX_Hsn20, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r25, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))			4.
13		L!DL_DatRqFrqre	FrqRedfSnd(TCV_WorkingCh, FreqRedef_01(TCV_chd1, MoblAllc_r25, TCV_Strt, CellChDes_Omit))		5.
14		(TCV_Strt := OC_StartTime(TCV_Fn, 4000, 1))			6.
15		(TCV_nc :='010'B)			
16		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
17		+local_handoverCMD			
18		L?DL_EstIn	DLEstInd(TCV_WorkingCh)		
19		L?DL_DatInHofl	HndOvFlRcv(TCV_WorkingCh, HandOvFail_02)		
20		+local_HoppingCHK			7.
21		+PostMainLinkRel(TCV_WorkingCh)			
		local_HoppingCHK			
22		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r25, TCV_chd1, 5000, TCV_Fn))			
23	L_0341	[TCV_Res]		(P)	
24	L_0342	[NOT TCV_Res]		(F)	
		local_handoverCMD			
25		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_WorkingCh, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltD, TSPX_TscD, CellChDes_20_Bman, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp10, TSPX_Maio22, TSPX_Maio23, TSPX_Hsn22, TSPX_Hsn23, TSPX_HoRefA, TSPX_PwrlvlC, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r05, MoblAllc_r26, MoblAllc_r27, CphMod_omit))		
27		[TSPC_DCS]			
28		L!DL_DatRqHoCmd	HndOvSnd(TCV_WorkingCh, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltD, TSPX_TscD, CellChDes_201_Bd, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp10, TSPX_Maio22, TSPX_Maio23, TSPX_Hsn22, TSPX_Hsn23, TSPX_HoRefA, TSPX_PwrlvlC, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r05, MoblAllc_r26, MoblAllc_r27, CphMod_omit))		
		local_channel_setup			
29		(TCV_n := BIT_TO_INT(TSPX_Chtp9))			
30		[TCV_n = 1]			
31		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltC, TSPX_TscC, ChMod_sign, Freq_rg14, Freq_rd14, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
32		(TCV_WorkingCh := TCV_chTch)			
33		+Set_CellChDescr(C_CellA)			
34		(TCV_sacchTch2:=TCV_sacch8)			
35		[(TCV_n = 2) OR (TCV_n = 3)]			
36		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp9, 1), C_Immass, TSPX_TmSltC, TSPX_TscC, ChMod_sign, Freq_rg14, Freq_rd14, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
37		(TCV_WorkingCh := TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
38		+Set_CellChDescr(C_CellA)			
39		(TCV_sacchTch2:=TCV_sacchTch)			
40		[(TCV_n >= 8) AND (TCV_n <= 15)]			
41		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp9, 3), C_Immass, TSPX_TmSltC, TSPX_TscC, ChMod_sign, Freq_rg14, Freq_rd14, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
42		(TCV_WorkingCh := TCV_ch)			
43		+Set_CellChDescr(C_CellA)			
44		(TCV_sacchTch2:=TCV_sacch8)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as BCCH, CCCH for Cell B.
3. To setup a physical channel for immediate assignmemnt.
4. To calculate the starting time for frequency redifinition.
5. To send FREQUENCY REDIFINITION message.
6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.
7. To check whether the after time frequency hopping is correct at the RF burst level.
8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_8

Group : RR/

Purpose : To verify that the MS, after receiving a FREQUENCY REDEFINITION message and then an HANDOVER COMMAND message with a starting time and channel descriptions both for before and after the starting time, failing the handover, and returning on the old channel, and ready to access after the time indicated in the FREQUENCY REDEFINITION, resumes transmission using the new frequency parameters indicated in the FREQUENCY REDEFINITION message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			3.
4		+StartCellB(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, C_S0, TSPX_TscE, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC_1, C_NCC)			2.
5	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r34(TCV_Rr, TCV_Fn, TSPX_TmSltD, TSPX_TscD, TimingAdv(30)))		
9		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+local_continue			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_continue			
12		(TCV_nc :='010'B)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 265, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp11, TSPX_TmSltD, TSPX_TscD, INT_TO_BIT(TSPX_Maio25, 6), INT_TO_BIT(TSPX_Hsn24, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r29, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))			4.
15		L!DL_DatRqFrqre	FrqRedfSnd(TCV_WorkingCh, FreqRedef_01(TCV_chd1, MoblAllc_r29, TCV_Strt, CellChDes_Omit))		5.
16		(TCV_Strt := OC_StartTime(TCV_Fn, 5000, 1))			6.
17		+local_sendHoCMD			
18		L?DL_EstIn	DLEstInd(TCV_WorkingCh)		
19		L?DL_DatInHofl	HndOvFlRcv(TCV_WorkingCh, HandOvFail_02)		7.
20		+ltree_Hoppingcheck			
21		+PostMainLinkRel(TCV_WorkingCh)			
		ltree_Hoppingcheck			
22		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r29, TCV_chd1, 265, TCV_Fn))			
23	L_1061	[TCV_Res]		(P)	
24	L_1062	[NOT TCV_Res]		(F)	
		local_sendHoCMD			
25		[TSPC_PGSM OR TSPC_EGSM]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		L!DL_DatRqHoCmd	HndOvSnd(TCV_WorkingCh, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltE, TSPX_TscE, CellChDes_20_B, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp12, TSPX_Maio26, TSPX_Maio27, TSPX_Hsn26, TSPX_Hsn27, TSPX_HoRefA, TSPX_PwrlvlD, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r06, MoblAllc_r30iei, MoblAllc_r31iei, CphMod_omit))		
27		[TSPC_DCS]			
28		L!DL_DatRqHoCmd	HndOvSnd(TCV_WorkingCh, HandOverCmd(C_NCC, C_BCC_1, TSPX_TmSltE, TSPX_TscE, CellChDes_201_Bdiei, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp12, TSPX_Maio26, TSPX_Maio27, TSPX_Hsn26, TSPX_Hsn27, TSPX_HoRefA, TSPX_PwrlvlD, Synchi(C_not_report_otd, C_non_synchronised), ChMod_r06, MoblAllc_r30iei, MoblAllc_r31iei, CphMod_omit))		
		local_channel_setup			
29		(TCV_n := BIT_TO_INT(TSPX_Chtp11))			
30		[TCV_n = 1]			
31		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
32		(TCV_WorkingCh := TCV_chTch)			
33		+Set_CellChDescr(C_CellA)			
34		(TCV_sacchTch2:=C_SACCHF_A_1)			
35		[(TCV_n = 2) OR (TCV_n = 3)]			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp11, 1), C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
37		(TCV_WorkingCh := TCV_chTch)			
38		+Set_CellChDescr(C_CellA)			
39		(TCV_sacchTch2:=TCV_sacchTch)			
40		[(TCV_n >= 8) AND (TCV_n <= 15)]			
41		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp11, 3), C_Immass, TSPX_TmSltD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
42		(TCV_WorkingCh := TCV_ch)			
43		+Set_CellChDescr(C_CellA)			
44		(TCV_sacchTch2:=TCV_sacch8)			

Detailed Comments :

1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as BCCH, CCCH for Cell B.
3. To setup a physical channel for immediate assignmemnt. Note: Although the test case is designed for TCH/F, TCH/H & SDCCH8 the TSPX_Chtp11 should be assigned to an SDCCH8 subchannel because calculations of starting time T1 for TCH/F & TCH/H have not yet been carried out. No simple values can be defined.
4. To calculate the starting time for frequency redifinition.
5. To send FREQUENCY REDIFINITION message.
6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.
7. The HANDOVER FAILURE message received on the channel using the after time hopping parameters of the frequency redifinetion message.
8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_9

Group : RR/

Purpose : To verify that the MS, after receiving an IMMEDIATE ASSIGNMENT message with a starting time and channel descriptions both for before and after the starting time, and ready to access before the indicated time, performs correctly the assignment using the description for before the time, and then starts using the frequency parameters for after the time indicated in the message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			2.
4	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
5		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn1 := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		+local_continue			
		local_continue			
8		(TCV_Fn := OM_ComingFn(TCV_agch), TCV_n := 0 − 867, TCV_Strt := OC_StartTime(TCV_Fn, TCV_n, 0), TCV_Fn := TCV_Strt.fn, TCV_Strt := OC_StartTime(TCV_Fn, TSPX_Tm3, 1), TCV_chd1 := ChDescrp_fh(TSPX_Chtp13, TSPX_TmSltF, TSPX_TscF, INT_TO_BIT(TSPX_Maio28, 6), INT_TO_BIT(TSPX_Hsn28, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_r32, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp13, TSPX_TmSltF, TSPX_TscF, INT_TO_BIT(TSPX_Maio28, 6), INT_TO_BIT(TSPX_Hsn28, 6)), TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_agch, TCV_Fn))			3. 4.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r35(TCV_Rr, TCV_Fn1, TSPX_TmSltF, TSPX_TscF, TimingAdv(30), TCV_Strt, TCV_chd1))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_EstInPgRes	PgRes(TCV_WorkingCh, PagingRes_01)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		+ltree_aftertime_hopping_check			5.
13		+PostMainLinkRel(TCV_WorkingCh)			
		ltree_aftertime_hopping_check			
14		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r32, TCV_chd1, TSPX_Tm3, TCV_Fn))			
15	L_0343	[TCV_Res]		(P)	
16	L_0344	[NOT TCV_Res]		(F)	
		local_channel_setup			
17		(TCV_n := BIT_TO_INT(TSPX_Chtp13))			
18		[TCV_n = 1]			
19		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg16, Freq_rd16, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
20		(TCV_WorkingCh := TCV_chTch)			
21		+Set_CellChDescr(C_CellA)			
22		[(TCV_n = 2) OR (TCV_n = 3)]			
23		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp13, 1), C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg16, Freq_rd16, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			8.
24		(TCV_WorkingCh := TCV_chTch)			
25		+Set_CellChDescr(C_CellA)			
26		[(TCV_n >= 8) AND (TCV_n <= 15)]			
27		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp13, 3), C_Immass, TSPX_TmSltF, TSPX_TscF, ChMod_sign, Freq_rg16, Freq_rd16, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			9.
28		(TCV_WorkingCh := TCV_ch)			
29		+Set_CellChDescr(C_CellA)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To setup a physical channel for immediate assignmemnt.
3. To calculate the starting time for frequency parameters change.
4. To inform the test system to change frequency parameters after starting time.
5. To check whether the MS transimitting on the after time frequncy parameters.
6. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment before time.
7. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment before time.
8. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment before time.

Test Case Dynamic Behaviour

Test Case Name : TC_26_6_13_10

Group : RR/

Purpose : To verify that the MS, after receiving an IMMEDIATE ASSIGNMENT message with a starting time and channel descriptions both for before and after the starting time, performs correctly the assignment using the frequencies and hopping sequence for after the time if the indicated time has already elasped when the MObile Station is ready to transmit.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			2.
4		(TCV_Fn := OM_ComingFn(TCV_agch), TCV_Strt := OC_StartTime(TCV_Fn, 5, 1), TCV_Null := OM_SendNextOn(TCV_agch, TCV_Fn))			3.
5		START T_dly(2800)			4.
6		?TIMEOUT T_dly			
7	body	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
8		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		+local_continue			
		local_continue			
11		(TCV_chd1 := ChDescrp_fh(TSPX_Chtp14, TSPX_TmSltG, TSPX_TscG, INT_TO_BIT(TSPX_Maio30, 6), INT_TO_BIT(TSPX_Hsn30, 6)))			3.
12		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_r36(TCV_Rr, TCV_Fn, TSPX_TmSltG, TSPX_TscG, TimingAdv(30), TCV_Strt, TCV_chd1))		
13		L?DL_EstInPgRes	PgRes(TCV_WorkingCh, PagingRes_01)		4.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		ACTIVATE(OtherEventsFail)			Restore Normal default
15		+ltree_hopping_check			
16		+PostMainLinkRel(TCV_WorkingCh)			
		ltree_hopping_check			
17		(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MoblAllc_r33, TCV_chd1, 5, TCV_Fn))			
18	L_0345	[TCV_Res]		(P)	
19	L_0346	[NOT TCV_Res]		(F)	
		local_channel_setup			
20		(TCV_n := BIT_TO_INT(TSPX_Chtp14))			
21		[TCV_n = 1]			
22		+FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltG, TSPX_TscG, ChMod_sign, Freq_rg17, Freq_rd17, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			5.
23		(TCV_WorkingCh := TCV_chTch)			
24		+Set_CellChDescr(C_CellA)			
25		[(TCV_n = 2) OR (TCV_n = 3)]			
26		+HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp14, 1), C_Immass, TSPX_TmSltG, TSPX_TscG, ChMod_sign, Freq_rg17, Freq_rd17, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			6.
27		(TCV_WorkingCh := TCV_chTch)			
28		+Set_CellChDescr(C_CellA)			
29		[(TCV_n >= 8) AND (TCV_n <= 15)]			
30		+SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp14, 3), C_Immass, TSPX_TmSltG, TSPX_TscG, ChMod_sign, Freq_rg17, Freq_rd17, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
31		(TCV_WorkingCh := TCV_ch)			
32		+Set_CellChDescr(C_CellA)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH.
2. To setup a physical channel for immediate assignmemnt.
3. To calculate the starting time for immediate assignment.
4. To paging response message received on the channel with after time frequency parameters.
5. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment after time.
6. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment after time.
7. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment after time.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_1

Group : MM/

Purpose : To verify that the MS is able to receive and acknowledge a new TMSI by means of an explicit TMSI reallocation procedure. To verify that the MS has stored the TMSI in a non−volatile memory. The implicit reallocation procedure is tested in section 26.7.4.1.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI(TMSI_01), CKSN and Kc.It is "idle updated" on cell B.
The initial conditions will be arrived in procedures of PREAMBLE.
Required SIM card: default
Foreseen final state of the MS:
The MS has valid TMSI(TMSI_01), CKSN and Kc.It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4		+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			
5		+Ciphering_on(TCV_ch)			
6	body	+ltree_body			
		ltree_body			
7		+TmsiReallocation(MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2)			1)
8		+ChanRel(TCV_ch)			
9		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			no cipherin g
10		+MM_PwrOrSimOff (C_SIMIn)			
11		START T_dly(10000)			
12		?TIMEOUT T_dly			
13		+MM_PwrOrSimOn (C_SIMIn)			
14		START T_dly(5000)			
15		?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+WaitForInService			
17		+CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)			
18		+SelectPagingCh(C_CellB)			
19		+PreEstRRC_MM(MiTmsi_02, TCV_cksn, TimingAdv(30))			2)
20		+ChanRel(TCV_ch)			
21		+ltree_switchcell			
		ltree_switchcell			
22		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			4)
23		+MM_LUP_tmsirealloc(MiTmsi_01, MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2, TCV_lac, C_normal_updating, TCV_cksn, TimingAdv(30))			5)
24		+ChanRel(TCV_ch)			
25		+CCCH_group_Paging_group (TCV_Ccd0A, TSPX_IMSI)			
26		+SelectPagingCh(C_CellA)			
27		+Wait(C_T_Wait1)			
28		+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			6)
29		+ChanRel_end(TCV_ch)			

Detailed Comments : 1) new TMSI from PIXIT, test body starts from here.
2) RR connection with the new tmsi 2.
3) Initialisation of variables for cell A.
4) The RF level of cell B is lowered until the MS selects cell A and starts the Location Update.
5) Location Update from cell B to A.
6) RR connection with the new tmsi 1

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_2_1

Group : MM/

Purpose : 1) To check that a Mobile Station correctly responds to an Authentication(TCV_ch) Request message by
sending an Authentication(TCV_ch) Response message with the SRES information field set to the same
value as the one produced by the authentication algorithm in the network.
2) To check that a Mobile Station indicates in a Paging Response message the ciphering key sequence number which was allocated to it through the authentication procedure.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI, CKSN(CKSN1) and Kc.It is "idle updated" on the cell.

Foreseen final state of the MS:
The MS has valid TMSI(TMSI1), CKSN and Kc.It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			
4		(TCV_cksn:= TSPX_CKSNB)			
5	body	+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
6		+ChanRel(TCV_ch)			
7		+Wait(C_T_Wait1)			
8		+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			1)
9	post	+ChanRel_end(TCV_ch)			

Detailed Comments : 1) RR−Establishment with a new CKSN

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_2_2

Group : MM/

Purpose : 1) To check that ,after reception of an Authentication Reject message, the Mobile Station:
1.1 does not perform normal location updating
1.2 does not perform periodic location updating
1.3 does not respond to paging with TMSI
1.4 rejects any request from CM entity for MM connection except for emergency call
1.5 does not perform IMSI detach if deactivated

2) To check that, after reception of an Authentication Reject message the Mobile Station, if it supports speech, accepts a request for an emergency call by sending a CHANNEL REQUEST message with the establishment cause set to "emergency call" and includes an IMEI as mobile identity in the CM SERVICE REQUEST message.

3) To check that, after reception of an Authentication Reject message and after having been deactivated and reactivated, the MS performs location updating using its IMSI as mobile identity and indicates deleted LAI and CKSN.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI, CKSN2 and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has valid TMSI, CKSN1 and Kc.It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(700)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
5	body	+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			
6		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
7		L!DL_DatRqAuthRej	AuthRejSnd(TCV_ch, AuthReject_01)		
8		+ChanRel(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+MM_no_paging(MiTmsi_01, 3000, TCV_Ccd0B, C_CellB)			2)
10		START T_dly(15000)			
11		?TIMEOUT T_dly			
12		+local_continue			
		local_continue			
13		+MM_no_cmservices(3000)			3)
14		+MM_check_ecall1(TimingAdv(30), MiImei_01)			
15		+ltree_switchcelltoA			
16		+NoReaction(30000)			5)
17		+ltree_continue1			
		ltree_continue1			
18		+NoReaction(420000)			6)
19		+ImsiDetachNoReaction(3000, C_SIMneedRmv)			7)
20		+MM_PwrOrSimOn (C_SIMneedRmv)			
21		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDA, TimingAdv(30))			8)
22	post	+ChanRel_end(TCV_ch)			
		ltree_switchcelltoA			
23		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			9)

Detailed Comments :
1) Initial condition: CKSN2, which has the default value.
2) Check of purpose 1.3
3) Check of purpose 1.4
4) Check of purpose 1.4, emergency call
5) Check of purpose 1.1
6) Check of purpose 1.2
7) Check of purpose 1.5
8) Check normal location update after SimOutIn or SwitchOnOff or PowerOnOff.
9) CKSN1 takes the value different from the default value.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_3_1

Group : MM/

Purpose :
1) To verify that the MS sends identity information as requested by the system in the following cases: IMSI and TMSI are requested in non−ciphered mode, IMEI is requested in ciphered mode.
2) To verify that the MS sends its IMEI, when requested to do so, in non−ciphered mode.
3) To verify that the MS sends its IMEISV, when requested to do so, in non−ciphered mode.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated" on the cell.

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated" on the cell.
In the 11.10 there are two test sequences. In TTCN they are combined to only one.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3	body	+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			
4		+IdentityRequest(C_IMSI, MiImsi_01)			
5		+IdentityRequest(C_TMSI, MiTmsi_01)			
6		+Ciphering_on(TCV_ch)			
7		+IdentityRequest(C_IMEI, MiImei_01)			
8		+Ciphering_off(TCV_ch)			
9		+IdentityRequest(C_IMEI, MiImei_01)			
10		+IdentityRequest(C_IMEISV, MiImeisv_01)			
11	post	+ChanRel_end(TCV_ch)			

Detailed Comments :

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_3_2

Group : MM/

Purpose : To check that the MS behaves correctly when activated with an IMSI of length less than the maximum length. In this condition, the MS shall:
1. perform location updating
2. answer to paging with IMSI
3. give the correct IMSI when asked by an IDENTITY REQUEST
4. attempt CM connection establishment when requested to
5. attempt call re−establishment when needed
6. attempt IMSI detach when needed
7. erase its TMSI when the IMSI is sent by the network in a LOCATION UPDATING ACCEPT or a TMSI REALLOCATION COMMAND message.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has no valid TMSI. It is "idle updated" on the cell. The IMSI has the value '001011234'.
This test case shall use the SIM Card 2 with 'IMSI=001011234' and HPLMN_search_period=6min.
Foreseen final state of the MS:
The MS has no valid TMSI. It is "idle updated" on the cell.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)			
3		(TCV_Null := OO_SIM2Ins())			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_Restablishment, C_BCC, C_NCC, C_Start_Imsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, C_shortIMSI, C_Test_fh, C_NCCP_2)			0.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6	body	+ltree_body			
		ltree_body			
7		+ltree_check_idreqimsi			1.
8		+ltree_EnterCCstateU10			
9		(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
10		+ltree_check_reestablish_imsi			2.
11		+ltree_check_tmsi_imsi			3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+ImsiDetach(MiImsi_31, TimingAdv(30), C_SIMIn)			4.
13		+ltree_check_luppoweron			5.
14		+ltree_check_luplacchange			6.
15		+ltree_check_cmservreqimsi			7.
16		+ChanRel_end(TCV_ch)			
		ltree_check_idreqimsi			
17		+PreEstRRC_MM (MiImsi_31, TCV_cksn, TimingAdv(30))			
18		+IdentityRequest(C_IMSI, MiImsi_31)			
		ltree_check_reestablish_imsi			
19		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_10)		
20		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
21		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
22	L_0347	L?DL_EstInCmreRq	CmreReq_02(MiImsi_31, LocAreaId_anyomit, TSPX_CKSNDef)	(P)	
23		ACTIVATE(OtherEventsFail)			Restore Normal default
24		+TmsiReallocation(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)			
25		+ChanRel(TCV_ch)			
		ltree_check_tmsi_imsi			
26		+Wait(C_T_Wait1)			
27		+PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))			
28		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
29		+TmsiReallocation(MiImsi_31, C_MCC_1, C_PLMN_1, C_LAC_1)			
30		+ChanRel(TCV_ch)			
31		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_check_luppoweron			
32		+MM_PwrOrSimOn (C_SIMIn)			
33		+MM_LUP2(MiTmsi_01iei, MiImsi_31, C_MCC_1, C_PLMN_1, TCV_lac, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30))			
		ltree_check_luplacchange			
34		(TCV_lac:= C_LAC_2)			
35		(TCV_slot := C_S0, TCV_tsc := C_BCC)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
36		+StartCellA_1(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 5, 1, 0, 1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, TCV_lac, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment)			
37		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Reorg))			
38		START T_dly(5000)			
39		?TIMEOUT T_dly			
40		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Norm))			
41		+MM_LUP_imsi(C_T_Wait1stChReq, MiImsi_31iei, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, TCV_lac, C_normal_updating, TimingAdv(30))			
42		+MM_LupInit3(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cksn, TimingAdv(30))			
43		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Norm))			
44		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiImsi_31iei, C_MCC_1, C_PLMN_1, TCV_lac))		
45		+ChanRel(TCV_ch)			
		ltree_check_cmservreqimsi			
46		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
47		+InitCall(TCV_Service)			
48		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
49		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
50		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
51	L_0348	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_30(MiImsi_31))	(P)	
52		ACTIVATE(OtherEventsFail)			Restore Normal default
		ltree_EnterCCstateU10			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
53		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDef, TSPX_RANDDef))		
54		L?DL_DatInAuthRes(TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
55		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDDef), TCV_Setup_mt.sig := Signal_01)			
56	L_0349	[NOT TCV_Res]		(I)	
57		+PostMainLinkRel(TCV_ch)			
58		[TCV_Res]			
59		+Ciphering_on(TCV_ch)			
60		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
61		L?DL_DatInCallCo(TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
62		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
63		+ltree_assignTch			
64		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
65		(TCV_Null := OO_HookOff())			
66		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
67		+ltree_assignTch			
		ltree_assignTch			
68		+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			
69		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
70		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			

Detailed Comments :
0. Initial condition: no valid TMSI.
1. check of purpose 2. and 3.
2. check of purpose 5.
3. check of purpose 7.
4. check of purpose 6.
5. check of purpose 1.
6. check of purpose 1. and 7.
7. check of purpose 4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_1

Group : MM/

Purpose : To test the behaviour of the MS if the network accepts the location updating of the MS. For the network response three different cases are identified:
1) TMSI is allocated,
2) Location updating accept contains neither TMSI nor IMSI,
3) Location updating accept contains IMSI.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI(TMSI1), CKSN(CKSN1) and Kc.It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell B.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+startcells_AandB			Idleupdated & StartCell B
3		+ltree_body			previous body of test
4		[(TSPC_PGSM OR TSPC_EGSM) AND TSPC_DCS]			Dual Band or more MS − finish here
5		[C_Yes]			
6		(TCV_Null := OM_StopCell(C_CellA), TCV_Null := OM_StopCell(C_CellB))			stop both cells before re−starting
7		+startcells_AandB			
8		START T_dly(5000)			Wait for SI messages to be sent
9		?TIMEOUT T_dly			
10		L!DL_UdatRqSysinfo3	SysInfo3_2ter(C_BCCH_A_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, TCV_Ccd0H, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		Contains same params as in IdleUpdated, but allows SI 2ter messages
11		+ltree_sendSysInfo2ter(C_CellA)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		L!DL_UdatRqSysinfo3	SysInfo3_2ter(C_BCCH_B_1, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, TCV_Ccd0H, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		Contains same params as in StartCellB, but allows SI 2ter messages
13		+ltree_sendSysInfo2ter(C_CellB)			
14		START T_dly(5000)			Wait for SI messages to be sent
15		?TIMEOUT T_dly			
16		+ltree_body			Repeat whole test
		startcells_AandB			
17		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
18		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
		ltree_body			
19	body	+ltree_switchcelltoB_LupPag1			
20		+ltree_switchcelltoA_LupPag			
21		+ltree_switchcelltoB_LupPag2			
		ltree_switchcelltoB_LupPag1			
22		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		+MM_LUP2(MiTmsi_02iei, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_normal_updating, TCV_cksn, TimingAdv(30))			
24		+WaitForInService			
25		+CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)			
26		+SelectPagingCh(C_CellB)			
27		+PreEstRRC_MM(MiTmsi_02, TCV_cksn, TimingAdv(30))			
28		+ChanRel(TCV_ch)			
		ltree_switchcelltoA_LupPag			
29		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
30		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
31		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
32		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
33		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn))		
34		ACTIVATE(OtherEventsFail)			Restore Normal default
35	L_0350	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, C_LAC_1))	(P)	
36		+ChanRel(TCV_ch)			
37		+WaitForInService			
38		+CCCH_group_Paging_group (TCV_Ccd0A, TSPX_IMSI)			
39		+SelectPagingCh(C_CellA)			
40		+PreEstRRC_MM(MiTmsi_02, TCV_cksn, TimingAdv(30))			
41		+ChanRel(TCV_ch)			
		ltree_switchcelltoB_LupPag2			
42		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
43		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
44		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
45		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
46		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cksn))		
47		ACTIVATE(OtherEventsFail)			Restore Normal default
48	L_0351	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiImsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_2))	(P)	
49		+ChanRel(TCV_ch)			
50		+WaitForInService			
51		+MM_no_paging(MiTmsi_02, 5000, TCV_Ccd0B, C_CellB)			
52		+PreEstRRC_MM(MiImsi_01, TCV_cksn, TimingAdv(30))			
53		+ChanRel(TCV_ch)			
		ltree_sendSysInfo2ter(cell: CellID)			
54		[cell = C_CellA]			
55		[TSPC_PGSM OR TSPC_EGSM]			
56		L!DL_UdatRqSysinfo2ter	SysInfo2ter1(C_BCCH_A_1,'49'O, BcchFreqLst2_53)		
57		[TSPC_DCS]			
58		L!DL_UdatRqSysinfo2ter	SysInfo2ter1(C_BCCH_A_1,'49'O, BcchFreqLst2_54)		
59		[cell = C_CellB]			
60		[TSPC_PGSM OR TSPC_EGSM]			
61		L!DL_UdatRqSysinfo2ter	SysInfo2ter1(C_BCCH_B_1,'01'O, BcchFreqLst2_55)		
62		[TSPC_DCS]			
63		L!DL_UdatRqSysinfo2ter	SysInfo2ter1(C_BCCH_B_1,'01'O, BcchFreqLst2_56)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_1

Group : MM/

Purpose : To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "IMSI unknown in HLR", "illegal MS" or "Illegal ME".

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.
Foreseen final state of the MS:
The MS has valid TMSI and no CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(2100)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
4	body	+execution1			
5		+execution2			
6		+execution3			
		execution1			
7		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
8		+MM_LupRej(C_rc_imsiunknownhlr, C_normal_updating, TimingAdv(30))			
9		+ltree_main			
10		+ChanRel(TCV_ch)			
		execution2			
11		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
12		+MM_LupRej(C_rc_illegal_ms, C_normal_updating, TimingAdv(30))			
13		+ltree_main			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+ChanRel(TCV_ch)			
		execution3			
15		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
16		+MM_LupRej(C_rc_illegal_me, C_normal_updating, TimingAdv(30))			
17		+ltree_main			
18	post	+ChanRel_end(TCV_ch)			
		ltree_main			
19		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
20		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
21		+NoReaction(30000)			
22		+NoReaction(420000)			
23		+MM_no_paging (MiImsi_01, 3000, TCV_Ccd0A, C_CellA)			
24		+MM_no_paging(MiTmsi_01, 3000, TCV_Ccd0A, C_CellA)			
25		+MM_no_cmservices(3000)			
26		+MM_check_ecall1(TimingAdv(30), MiImei_01)			
27		+ImsiDetachNoReaction(3000, C_SIMneedRmv)			
28		+MM_PwrOrSimOn (C_SIMneedRmv)			
29		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_2_1

Group : MM/

Purpose : To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "PLMN not allowed".

Configuration :

Default : OtherEventsFail

Comments : Initial conditions for the Mobile Station:
− The MS has a valid TMSI. It is "idle updated" on cell C.
− The MS is in manual mode for PLMN selection.

Final state of the Mobile Station:
Idle Updated with TMSI on cell C. The MS is in automatic mode for PLMN selection.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(720)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellC, C_SCH_C, C_BCCH_C_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellC, C_MCC_1, C_PLMN_1, C_LAC_3, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_07, BcchFreqLst_07, BcchFreqLst_15, BcchFreqLst_15, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4	body	+MM_PwrOrSimOff (C_SIMIn)			
5		(TCV_Null := OM_StopCell(C_CellC))			
6		+Start_2cells(C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, C_LAC_2)			
7		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
8		+MM_PwrOrSimOn (C_SIMIn)			
9		+ltree_continue			
10		+RmvForbiddenPlmn1(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			8)
		ltree_continue			
11		(TCV_Null := OO_PLMNselModeMan())			
12		(TCV_Null := OO_SelPLMN(C_PLMN_2))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+MM_LupRej(C_rc_plmn_not, C_normal_updating, TimingAdv(30))			1)
14		+NoReaction(420000)			2)
15		+ImsiDetachNoReaction(3000, C_SIMneedRmv)			3)
16		+MM_PwrOrSimOn(C_SIMneedRmv)			
17		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
18		+ltree_continue1			
		ltree_continue1			
19		+NoReaction(60000)			4)
20		+MM_check_ecall1(TimingAdv(30), MiImsi_01)			5)
21		(TCV_Service := TSPX_MOBscSvcA)			
22		+MM_no_cmservices(3000)			5)
23		+MM_PwrOrSimOff (C_SIMIn)			
24		(TCV_Null := OM_StopCell(C_CellA), TCV_Null := OM_StopCell(C_CellB))			
25		+ltree_continue2			
		ltree_continue2			
26		+StartCellC(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_3, C_noRestablishment, C_BCC, C_NCC)			6)
27		+Varinit_fix(C_CellC, C_LAC_3, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TCV_Ccd0C, TSPX_IMSI)			
28		+MM_PwrOrSimOn (C_SIMIn)			
29		(TCV_Null := OO_PLMNselModeAuto())			
30		+MM_LUP2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv(30))			7)

Detailed Comments : 1) Location updating rejected with cause = PLMN not allowed.

MS shall
2) not perform periodic updating
3) not perform IMSI detach when switched off.
4) not perform normal location updating after switching to a new LAC in the same PLMN and when that PLMN is not selected manually.
5) reject any request from CM entity for MM connection other than for emergency call.
6) switch to a new cell with a new PLMN.
7) perform normal location updating after entering in a new PLMN.
8. The PLMN of cell B is supressed on the SIM's forbidden PLMN list.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_2_2

Group : MM/

Purpose : To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "PLMN not allowed".

Configuration :

Default : OtherEventsFail

Comments : Initial conditions for the Mobile Station:
− The MS has a valid TMSI. It is "idle updated" on cell C.
− The MS is in manual mode for PLMN selection.

Final state of the Mobile Station:
Idle Updated with TMSI on cell C. The MS is in automatic mode for PLMN selection.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(720)			
2		+IdleUpdated(C_E_default, C_CellC, C_SCH_C, C_BCCH_C_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellC, C_MCC_1, C_PLMN_1, C_LAC_3, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_07, BcchFreqLst_07, BcchFreqLst_15, BcchFreqLst_15, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3	body	+MM_PwrOrSimOff (C_SIMIn)			
4		(TCV_Null := OM_StopCell(C_CellC))			
5		+Start_2cells(C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, C_LAC_2)			
6		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
7		+MM_PwrOrSimOn (C_SIMIn)			
8		+ltree_continue			
9		+RmvForbiddenPlmn1(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			3)
		ltree_continue			
10		(TCV_Null := OO_PLMNselModeMan())			
11		(TCV_Null := OO_SelPLMN(C_PLMN_2))			
12		+MM_LupRej(C_rc_plmn_not, C_normal_updating, TimingAdv(30))			1)
13		(TCV_Null := OO_SelPLMN(C_PLMN_2))			2)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+MM_LupInit(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			
15		+ChanRel(TCV_ch)			
16		+MM_PwrOrSimOff (C_SIMIn)			
17		(TCV_Null := OM_StopCell(C_CellA), TCV_Null := OM_StopCell(C_CellB))			
18		+ltree_continue2			
		ltree_continue2			
19		+StartCellC(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_3, C_noRestablishment, C_BCC, C_NCC)			
20		+Varinit_fix(C_CellC, C_LAC_3, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TCV_Ccd0C, TSPX_IMSI)			
21		+MM_PwrOrSimOn (C_SIMIn)			
22		(TCV_Null := OO_PLMNselModeAuto())			
23		+MM_LUP2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv(30))			
Detailed Comments :		1) Location updating rejected with cause = PLMN not allowed. 2) MS shall perform normal location updating after switching to a new LAC in the same PLMN and when that PLMN is selected manually. 3) The PLMN of cell B is supressed on the SIM's forbidden PLMN list.			

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_3

Group : MM/

Purpose : To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "Location Area not allowed".
To test that the MS deletes the list of forbiden location areas after switching of the MS.

Configuration :

Default : OtherEventsFail

Comments : Initial conditions for the Mobile Station:
− The MS has a valid TMSI. It is "idle updated" on cell A.

Initial conditions for the Mobile Station:
− The MS has a valid TMSI. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(720)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
5		+ltree_body			
		ltree_body			
6		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
7		+MM_LupRej(C_rc_LAnotallowed, C_normal_updating, TimingAdv(30))			1)
8		+NoReaction(420000)			2)
9		+MM_no_paging(MiTmsi_01, 3000, TCV_Ccd0B, C_CellB)			3)
10		+MM_no_cmservices(3000)			4)
11		+MM_check_ecall1(TimingAdv(30), MiImsi_01)			4)
12		+ImsiDetachNoReaction(3000, C_SIMIn)			5)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+MM_PwrOrSimOn (C_SIMIn)			
14		+MM_LupRej2(C_rc_LAnotallowed, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			6)
15		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
16		+MM_LUPauth1(MiTmsi_01iei, C_MCC_1, C_PLMN_1, TCV_lac, C_normal_updating, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			7)
17		+ChanRel_end(TCV_ch)			

Detailed Comments : 1) Reject of Location Updating with the cause Location Area is not allowed.

MS shall
2) not perform periodic updating
3) not perform paging with TMSI
4) reject any request from CM entity for MM connection other than for emergency call.
5) not perform IMSI detach when switched off.
6) delete list of forbidden LAs after switch off and perform normal location updating
7) perform normal location updating after entering in a new Location Area.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_4_1

Group : MM/

Purpose : Test purpose 1
To test that on receipt of a rejection using the Roaming cause code, the MS ceases trying to update on that cell, that this situation continues for at least one periodic location interval period, and that the corresponding list is re−set by powering down the MS (the requirement in TS GSM 04.08 is that the list shall be retained for at least 12 hours. This aspect is not formally tested).

Configuration :

Default : OtherEventsFail

Comments : This testcase includes only the procedure of part 1 of GSM 11.10−1, section 26.7.4.2.4.

Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(720)			
2		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4	body	+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
5		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			1)
6		+NoReaction(420000)			2)
7		+MM_PwrOrSimOff (C_SIMIn)			3)
8		+MM_PwrOrSimOn (C_SIMIn)			3)
9		(TCV_Null := OO_PLMNselModeAuto())			
10		+MM_LupInit2(C_normal_updating, TimingAdv(30))			3)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11	L_0352	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac))	(P)	4)
12		+ChanRel_end(TCV_ch)			

Detailed Comments : 1) Reject of Location Updating with the cause Roaming is not allowed.

MS shall
2) not perform periodic updating
3) reset the list of "forbidden location areas for national roaming" when powered down.
4) Location Updating Accept with LAI belonging to PLMN2 and without Mobile Identity.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_4_2

Group : MM/

Purpose : Test purpose 2
To test that if no cell is available, the MS does not answer to paging with TMSI, rejects a request from CM entity except other than emergency calls.

Configuration :

Default : OtherEventsFail

Comments : This testcase includes only the procedure of part 2 of GSM 11.10−1, section 26.7.4.2.4.

Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is in the "limited service" state on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(360)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
5		+ltree_body			
		ltree_body			
6		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
7		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			1)
8		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
9		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
10		+NoReaction(120000)			4)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		+MM_no_paging(MiImsi_01, 3000, TCV_Ccd0B, C_CellB)			3b)
12		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
13		+MM_no_paging(MiImsi_01, 3000, TCV_Ccd0A, C_CellA)			3a)
14		+MM_no_cmservices(3000)			4)
15		+MM_check_ecall1(TimingAdv(30), MiImsi_01)			4)
16		+ChanRel_end(TCV_ch)			

Detailed Comments : 1) Reject of Location Updating with the cause Roaming is not allowed.

MS shall
2) perform normal updating when a new location area is entered.
3a) not respond to paging with TMSI in cell a.
3b) not respond to paging with TMSI in cell b.
4) reject any request from CM entity for MM connection other than for emergency call.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_4_3

Group : MM/

Purpose : Test purpose 3
To test that at least 6 entries can be held in the list of "forbidden location areas for roaming" (the requirement in TS GSM 04.08 is to store at least 10 entries. This is not fully tested by the this procedure).

Configuration :

Default : OtherEventsFail

Comments : This testcase includes only the procedure of part 3 of GSM 11.10−1, section 26.7.4.2.4.

Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1020)			
2		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4	body	+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
5		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			1)
6		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
7		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
8		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+ChgLAC_A(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_3)			
10		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
11		+ltree_continue			
		ltree_continue			
12		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
13		+ChgLAC_B(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_4)			
14		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
15		+ChgLAC_A(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_5)			
16		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
17		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
18		+ChgLAC_B(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_6)			
19		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			2)
20		START T_dly(420000)			3)
21	L_0353	?TIMEOUT T_dly		P	

Detailed Comments : 1) Reject of Location Updating with the cause Roaming is not allowed.

MS shall
2) perform normal updating when a new location area is entered.
3) not perform periodic updating

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_4_4

Group : MM/

Purpose : Test purpose 4
To test that if a cell of the Home PLMN is available then the MS returns to it in preference to any other available cell.

Configuration :

Default : OtherEventsFail

Comments : This testcase includes only the procedure of part 4 of GSM 11.10−1, section 26.7.4.2.4.

Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell C.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(960)			
2		+IdleUpdated(73, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_2, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+StartCellB_1(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_2, C_noRestablishment, C_BCC, C_NCC)			
4		+StartCellC(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_3, C_noRestablishment, C_BCC, C_NCC)			
5		+MM_LUPper(C_MCC_1, C_PLMN_2, TCV_lac, C_periodic_updating, TimingAdv(30))			1)
6		+ChgLAI_C(1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_Home, C_LAC_3)			2)
7		+MM_LUPperrej(C_rc_roamingnot, C_periodic_updating, TimingAdv(30))			3)
8		+Varinit_fix(C_CellC, C_LAC_3, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TCV_Ccd0C, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+MM_LUP3(C_MCC_1, C_PLMN_Home, TCV_lac, C_normal_updating, TimingAdv(30))			4)

Detailed Comments : 1) Periodic Updating in cell A.
2) LAI change to HPLMN
3) Reject of Periodic Location Updating with the cause Roaming is not allowed in cell A.
4) MS shall periodically search to Home PLMN.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_2_4_5

Group : MM/

Purpose : Test purpose 5
To test that if the SIM is removed the list of "forbidden location areas for roaming" is cleared.

Configuration :

Default : OtherEventsFail

Comments : This testcase includes only the procedure of part 5 of GSM 11.10−1, section 26.7.4.2.4.

Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_SIMRmv]			
2		START T_guard(720)			
3		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
5	body	+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
6		+MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))			1)
7		+NoReaction(420000)			
8		+ImsiDetachNoReaction(3000, C_SIMneedRmv)			2)
9		+MM_PwrOrSimOn(C_SIMneedRmv)			3)
10		+MM_LupInit2(C_normal_updating, TimingAdv(30))			4)
11	L_0354	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))	(P)	no MI

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+ChanRel_end(TCV_ch)			
13	L_0355	[NOT TSPC_SIMRmv]		I	

Detailed Comments : 1) Reject of Location Updating in cell B.
2) The SIM is removed.
3) The SIM is inserted
4) The MS shall reset the list of "forbidden location areas for roaming" when SIM is removed.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_3_1

Group : MM/

Purpose : To verify that when during the RR connection establishment phase of a location updating procedure, channel requests are not answered by the network, after expiry of T3213 (= 4s in Phase 2) and when the cell reselection procedure is finished the complete procedure is repeated if still necessary.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4	body	+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			1)
5		(TCV_Cnt:=0)			
6		REPEAT ltree_ra UNTIL [TCV_Cnt = (TSPX_MaxRetrans+1)]			2)
7		START T_dly(4000)			
8	L_0356	?TIMEOUT T_dly		(P)	3)
9		+MM_LUP_imsi(5000, MiMsi_omit, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, TCV_lac, C_normal_updating, TimingAdv(30))			4) 4+0s to 4+5 s
10		(TCV_Null := OM_ChangeRFOf2Cells(C_CellB, C_E_default, C_CellA, C_E_suitable))			5)
11		(TCV_Cnt := 0)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		REPEAT ltree_ra UNTIL [TCV_Cnt = (TSPX_MaxRetrans+1)]			6)
13		(TCV_Null := OM_ChangeRFOf2Cells(C_C ellB, C_E_default, C_CellA, C_E_default))			7)
14		+NoReaction(15000)			8)
		ltree_ra			
15		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn, TCV_Cnt := TCV_Cnt + 1)	ChReq(ChRequest_09)		

Detailed Comments :
1) MS shall selects cell A, cell B is not available.
2) To send Max−Restrans+1 times Channel Requests in cell A
3) MS shall not try to establish a connection during a period of a cell reselection (4 seconds).
4) MS shall perform a normal location updating procedure as it is neccessary. The time difference between the channel request in the test step and the last channel request in the ltree_ra shall be in the range of 4−9 seconds.
5) Cell A is not available and MS shall switches to cell B
6) To send Max−Restrans+1 times Channel Requests in cell B
7) Cell A is available again.
8) MS shall not repeat the complete procedure if the original cause of the normal location updating procedure has disappeared.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_3_2

Group : MM/

Purpose : To verify that the MS performs normal location updating procedures when its attempt counter is smaller than 4. To check that the MS does not perform the IMSI detach procedure when "idle not updated". To verify that when "idle not updated" the MS can perform an emergency call. To verify that when "idle not updated" the MS uses requests from CM layer other than emergency call as triggering of a normal location updating procedure. To verify that the MS performs a normal location updating procedure if it enters a new cell while being "idle not updated".

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(540)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
4	body	+ltree_confreq1			1.
5		+ltree_confreq2			2.
6		+ltree_confreq3			3.
7		+ltree_confreq4			4.
8		+ltree_confreq6			6.
		ltree_confreq1			
9		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
10		+MM_LupRej2(C_rc_protocolerror, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cksn, TimingAdv(30))			1.1.
11		+NoReaction(C_T_T3211min)			1.2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+MM_LupAndStop(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch_B, C_T_T3211min)			In cell B
13		+MM_LupInit(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			1.2.
14		+ChanRel(TCV_ch)			
15		+NoReaction(C_T_T3211min)			
16		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			1.2.
17		+ChanRel(TCV_ch)			
		ltree_confreq2			
18		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
19		+MM_LupRej2(C_rc_conditIEerror, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn, TimingAdv(30))			1.2.
20		(TCV_Null:=OM_PgFill(C_CellA, PgReqTp1_30(MiTmsi_01)))			
21		START T_dly(8000)			
22		(TCV_Null := FALSE)			
23		REPEAT ltree_wait_or_Rej UNTIL [TCV_Null]			
24		+ltree2_send			
		ltree2_send			
25		(TCV_Null:=OM_PgFill(C_CellA, PgReqTp1Norm))			
26		START T_dly(12000)			
27		(TCV_Null := FALSE)			
28		REPEAT ltree_wait_or_Rej UNTIL [TCV_Null]			
29		+ImsiDetachNoReaction(30000, C_SIMneedRmv)			
30		+MM_PwrOrSimOn (C_SIMneedRmv)			
31		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			
32		+ChanRel(TCV_ch)			
		ltree_wait_or_Rej			
33	L_0357	?TIMEOUT T_dly		(P)	
34		(TCV_Null := TRUE)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
35		+MM_LupRej(C_rc_conditIEerror, C_normal_updating, TimingAdv(30))			2.3.
		ltree_confreq3			
36		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
37		+MM_LupAuthRpt(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			
38		+NoReaction(3000)			
39		+MM_check_ecall2(MiImsi_01, C_cksn_nokey, TimingAdv(30))			3.2.
40		START T_dly(15000)			
41	L_0358	?TIMEOUT T_dly		(F)	3.3.
42		+ChanRel(TCV_ch)			
43		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			
44		+ChanRel(TCV_ch)			
		ltree_confreq4			
45		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
46		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn, TimingAdv(30), TCV_sacch, 0)			In cell A
47		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
48		+InitCall(TCV_Service)			
49		+MM_LUP2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv(30))			4.2.
50		START T_dly(10000)			4.3.
51	L_0359	?TIMEOUT T_dly		(P)	
52		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		4.3.
53		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
54		CANCEL T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
55		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
56	L_0360	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(MiTmsi_01, C_cksn_nokey))	(P)	
57		ACTIVATE(OtherEventsFail)			Restore Normal default
58		+ChanRel(TCV_ch)			
		ltree_confreq6			
59		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
60		+MM_LupInit(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, C_cksn_nokey, TimingAdv(30))			
61		L!DL_DatRqChRel START T_dly(C_T_T3211plus)	ChRel(TCV_ch, ChRelease_01)		
62	L_0361	L?DL_RelIn	DLRelInd_01	(P)	
63		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
64		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			6.2.
65		+ChanRel_end(TCV_ch)			
66	L_0362	?TIMEOUT T_dly		(F)	6.1.

Detailed Comments : 1. Test of Conformance Requirement 1
1.1. Reject of Location Updating in cell B
1.2. MS shall wait the period of T3211 and restart the normal location updating procedure when the attempt counter is smaller than 4.
1.3. Radio Link Failure extends the period of delay for next location updating.

2. Test of Conformance Requirement 2
2.1. Reject of Location Updating in cell A
2.2. MS shall not asnwer to paging
2.3. All of location updating requests shall be rejected.
2.4. MS shall not perform the IMSI detach procedure.

3. Test of Conformance Requirement 3
3.1. Failure during Location Updating in cell A
3.2. MS shall support emergency call.
3.3. MS shall wait at most 15 sec. for location updating

4. Test of Conformance Requirement 4

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Test Case Dynamic Behaviour
Detailed Comments : ... 4.1. Failure during Location Updating Procedure 4.2. MS shall use a request from Cm entity other than emergency call as a trigger for a normal location updating procedure. 4.3. After the Location Updating Procedure MS cann (optional) start automaticly the Cm entity service again. It is optional and shall observed only 15 sec. 6. Test of Conformance Requirement 6 6.1. Failure during Location Updating Procedure 6.2. MS shall start the location Updating Procedure as soon as it enters a new cell.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_3_3

Group : MM/

Purpose : To verify that the MS performs normal location updating after T3212 expiry when its attempt counter has reached value 4 and that the MS reset its attempt counter after a timer T3212 expiry.
To verify that the MS still follows the MM−IDLE ATTEMPTING TO UPDATE state requirements after its attempt counter has reached value 4.
To verify that the attempt counter is reset in the cases where it has to be done.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4	body	+ltree_part1			1.
5		+ltree_part2			2.
6		+ltree_part3			3.
		ltree_part1			
7		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
8		+MM_LupRej2(C_rc_congestion, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn, TimingAdv(30))			
9		+NoReaction(C_T_T3211min)			
10		+MM_LupAndStop(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch, C_T_T3211min)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		+MM_LupAuthRpt(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TSPX_RANDDef, TimingAdv(30))			
12		+ltree_part1_2			
		ltree_part1_2			
13		+NoReaction(C_T_T3211min)			
14		+MM_LupInit(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			
15		+ChanRel(TCV_ch)			1.1.
16		+NoReaction(C_T_T3212min)			
17		+MM_LupRej2(C_rc_networkfailure, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			1.2.
18		+NoReaction(C_T_T3211min)			
19		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			1.3.
20		+ChanRel(TCV_ch)			
		ltree_part2			
21		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
22		+ltree_increaseATcounter(C_LAC_1, TCV_sacch_B)			
23		+MM_LupRej2(C_rc_notidentified, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			2.1.
24		+MM_check_ecall2(MiImsi_01, C_cksn_nokey, TimingAdv(30))			2.2.
25		+ImsiDetachNoReaction(3000, C_SIMIn)			7.
26		+MM_PwrOrSimOn(C_SIMneedRmv)			
27		+MM_LUPauth2 (MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			
28		+ChanRel(TCV_ch)			
		ltree_part3			
29		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
30		+ltree_increaseATcounter(C_LAC_2, TCV_sacch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		+MM_LupAndStop(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch, 0)			3.1.
32		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
33		+InitCall(TCV_Service)			
34		+MM_LupInit(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			3.2.
35		+ChanRel(TCV_ch)			
36		+ltree_part3_2			
		ltree_part3_2			
37		+NoReaction(C_T_T3211min)			
38		+MM_LUPauth2 (MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			3.3.
39		+ChanRel(TCV_ch)			
40		START T_dly(10000)			
41		+ltree_part3_3			
42		+ltree_part3_4			
		ltree_part3_3			
43		?TIMEOUT T_dly			
44		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		
45		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
46		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
47	L_0363	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(MiTmsi_01,TCV_cksn))	(P)	
48		ACTIVATE(OtherEventsFail)			Restore Normal default
49		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_30(C_rc_networkfailure))		
50		+ChanRel(TCV_ch)			
		ltree_part3_4			
51		+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
52		+ltree_increaseATcounter(C_LAC_1, TCV_sacch_B)			
53		+MM_LupRej2(C_rc_invalidmaninfo, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			3.4.
54		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			3.5.
55		+MM_LupAndStop(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch, C_T_T3211min)			
56		+MM_LUPauth2(MiTmsi_01iei , MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			3.6.
57	post	+ChanRel_end(TCV_ch)			
		ltree_increaseATcounter(lac : OCTETSTRING; par: LOGICCH)			
58		+MM_LupRej2(C_rc_notidentified, MiTmsi_01, C_MCC_1, C_PLMN_1, lac, C_normal_updating, TCV_cksn, TimingAdv(30))			
59		+NoReaction(C_T_T3211min)			
60		+MM_LupAndStop(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), par, C_T_T3211min)			
61		+MM_LupInit(MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))			
62		+ChanRel(TCV_ch)			
63		+NoReaction(C_T_T3211min)			

Detailed Comments : 1. To test conformance requirement 1
1.1. Attempt counter is now equal to 4
1.2. MS shall perform location updating after T3212
1.3. MS shall initiate location updating procedure, if the updating was unsuccessful.

2.) To test conformance requirement 2
2.1. Attempt counter is now equal to 4
2.2. MS shall perform request for emergency call
2.3. MS shall not perform an IMSI detach procedure

3.) To test conformance requirement 3 and 4
3.1. Attempt counter is now equal to 4
3.2. MS shall use a request from CM entity for MM connection for a service other than emergency call as a trigger for a normal location updating procedure.
3.3. MS shall reset the attempt counter after successful location updating procedure.
3.4. Attempt counter is now equal to 4
3.5. MS shall perform the normal location updating procedure after entering a new cell.
3.6. If the location updating procedure unssuccessful, the MS shall trigger the location updating after T3211 again.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_3_4

Group : MM/

Purpose : To verify that in the case when the attempt counter is smaller than 4 and the broadcast LAI is equal to the stored LAI, the MS is in the MM−IDLE state and NORMAL SERVICE substate. To verify that timer T3211 is stopped after a MM connection establishment. To verify that the MS uses the T3211 timer. and that it enters the MM−IDLE state and NORMAL SERVICE substate when its attempt counter reaches value

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN.It is "idle updated" on cell B.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell B.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(2700)			
2		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+ltree_confreq1			1.
4		+ltree_confreq2			2.
5		+ltree_confreq3			3.
6		+ltree_confreq4			4.
7		+ltree_confreq5			5.
8		+ltree_confreq6			6.
		ltree_confreq1			
9		(TCV_tmp := (C_T_T3212 + 45000))			
10		+MM_LUPperrej2(C_rc_networkfailure, MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			1.1.
11		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
12		+InitCM(TCV_Service)			
13		+ltree_cmservinit(MiTmsi_01, TCV_cksn)			1.2.
14		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
15		+ltree_CMmsg			
16		+ChanRel(TCV_ch)			
17		(TCV_n := 2 * C_T_T3211min)			
18		+NoReaction(TCV_n)			1.3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)			
		ltree_confreq2			
20		+ltree_MOCall			
21		+NoReaction(TCV_n)			2.3.
22		+ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)			
23		+MM_PwrOrSimOn(C_SIMneedRmv)			
24		+MM_LupInit(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30))			
25		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		
26		+ChanRel(TCV_ch)			
		ltree_confreq3			
27		(TCV_tmp := (C_T_T3212 + 15000))			
28		+MM_LUPperrej3(MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn,TimingAdv(30))			3.1.
29		+NoReaction(C_T_T3211min)			
30		+MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			3.1.
31		+NoReaction(C_T_T3211min)			
32		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30), TCV_sacch_B, C_T_T3211min)			3.1.
33		+ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			3.1.
34		+MM_LUPperauth(MiImsi_01, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normalOrperiodic, C_cksn_nokey, TSPX_RANDDef, TimingAdv(30))			3.2.
35		+ChanRel(TCV_ch)			
		ltree_confreq4			
36		+NoReaction(C_T_T3212min)			
37		+MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			
38		+NoReaction(C_T_T3211min)			
39		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30), TCV_sacch_B, C_T_T3211min)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
40		+ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			
41		+NoReaction(C_T_T3211min)			
42		+ltree_confreq4_continue			
		ltree_confreq4_continue			
43		+MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv(30))			4.1.
44		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
45		+InitCM(TCV_Service)			
46		+MM_LUP2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv(30))			4.2.
47		START T_dly(10000)			
48		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		4.3.
49		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
50		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
51	L_0364	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(MiTmsi_01, C_cksn_nokey))	(P)	
52		ACTIVATE(OtherEventsFail)			Restore Normal default
53		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_04)		
54		+ChanRel(TCV_ch)			
55	L_0365	?TIMEOUT T_dly		(P)	4.3)
		ltree_confreq5			
56		+ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)			
57		+MM_PwrOrSimOn (C_SIMneedRmv)			
58		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, C_cksn_nokey, TimingAdv(30), TCV_sacch_B, C_T_T3211min)			5.1.
59		+ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, C_cksn_nokey, TimingAdv(30))			5.1.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
60		+NoReaction(C_T_T3211min)			
61		+MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, C_cksn_nokey, TimingAdv(30))			5.1.
62		+NoReaction(C_T_T3211min)			
63		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, C_cksn_nokey, TimingAdv(30), TCV_sacch_B, 0)			5.2.
64		+MM_LUPperauth(MiImsi_01, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_norm_period_attach, C_cksn_nokey, TSPX_RANDDef, TimingAdv(30))			5.3.
65		+ChanRel(TCV_ch)			
		ltree_confreq6			
66		+ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)			
67		+MM_PwrOrSimOn (C_SIMneedRmv)			
68		+ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30))			
69		+NoReaction(C_T_T3211min)			
70		+MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30))			
71		+NoReaction(C_T_T3211min)			
72		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30), TCV_sacch_B, C_T_T3211min)			
73		+ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30))			6.1.
74		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
75		+InitCM(TCV_Service)			
76		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			6.2.
77		+ChanRel(TCV_ch)			
78		+ltree_cmservinit(MiTmsi_01, TCV_cksn)			
79		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_04)		
80		+ChanRel(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_cmservinit(par1: MI; par2: BITSTRING)			
81		START T_dly(15000)			
82		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		
83		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
84		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
85	L_0366	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(par1, par2))	(P)	
86		ACTIVATE(OtherEventsFail)			Restore Normal default
87	L_0367	?TIMEOUT T_dly		(F)	
		ltree_CMmsg			
88	L_0368	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)	(P)	1.2.
89	L_0369	L?DL_DatInRegister	Register_03(RegisterPdu_01)	(P)	1.2.
90		L?DL_EstIn	DLEstInd_2(TCV_ch)		
91	L_0370	L?DL_DatInCpData	DatInCpData(TCV_ch, CpDataPdu_any)	(P)	1.2.
		ltree_luprej3(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)			
92		+MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)			
93		+ChanRel(TCV_ch)			
		ltree_MOCall			
94		+MM_PwrOrSimOn (C_SIMneedRmv)			
95		+MM_LupAndStop(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn, TimingAdv(30), TCV_sacch_B, 0)			2.1)
96		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
97		+InitCM(TCV_Service)			
98		+ltree_cmservinit(MiTmsi_01, TCV_cksn)			2.2)
99		+Ciphering_on(TCV_ch)			
100		+ltree_CMmsg			
101		+ChanRel(TCV_ch)			
102		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			

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Test Case Dynamic Behaviour	
Detailed Comments :	1. Test of Conformance Requirement 1 1.1. failure during a periodic location updating procedure 1.2. − then the MS shall be able to attempt an CM connection 1.3. − then the MS shall not attempt a location updating procedure 2. Test of Conformance Requirement 2 2.1. failure during imsi attach procedure 2.2. − then the MS shall be able to establish an MM connection 2.3. − then the MS shall not attempt a location updating procedure 3. Test of Conformance Requirement 3 3.1. When a failure during a periodic location updating procedure and the attempt counter is smaller than 4 then the MS shall execute a periodic location updating procedure after T3211 expiry. 3.2. When the attempt counter reaches 4 after T3212 expiry the MS shall make a LUP any type. 4. Test of Conformance Requirement 4 4.1. The attempt counter reaches the value 4 4.2. then the MS shall use a request from CM layer for an emergency call as a trigger for a LUP. 4.3. this part is optional 5. Test of Conformance Requirement 5 5.1. When a failure during an imsi attach procedure and the attempt counter is smaller than 4 then the MS shall execute a location updating procedure(imsi attach) after T3211expiry. 5.2. Attempt Counter reaches the value 4 5.3. When the attempt counter reaches 4 after T3212 expiry the MS shall make a normal LUP. 6. Test of Conformance Requirement 6 6.1. Failure during an imsi attach procedure and the attempt counter reaches the value 4. 6.2. then the MS shall use a request from CM layer for an emergency call as a trigger for a LUP.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_4

Group : MM/

Purpose : To verify that the MS aborts the RR−connection at the expiry of timer T3240.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN.It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell B.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
4	body	+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+NoReaction(C_T_T3240min)			
11		START T_dly(C_T_T3240tol)			
12	L_0371	L?DL_RelIn CANCEL T_dly	DLRelInd_01	P	1)
13	L_0372	?TIMEOUT T_dly		F	
Detailed Comments : 1) MS shall release the L2−Connection after expiring of T3240.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_1

Group : MM/

Purpose : 1) To check that when the location updating timer is reduced, the timer running in the MS is started with a value depending on the current timer value and the new broadcasted T3212 value.

2) To verify that when the MS is reactivated in the same cell (as the one in which it was deactivated), IMSI attach being forbidden, the MS starts the timer T3212 with a value between zero and the broadcasted value

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is deactivated. The stored MCC, MNC and LAC correspond to the broadcasted values. The stored update status is "updated".

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_5, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			ATT = 1 − IMSI attach allowed
3	body	+ImsiAttach(MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
4		+step1			
5		+step2			
		step1			
6		START T_dly(180000)			
7		START T_dly2(C_T_T3212min)			5min.45 s.
8		?TIMEOUT T_dly			
9		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			1)
10		?TIMEOUT T_dly2			2)
11		+MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv(30))			6min.15.
12		+ChanRel(TCV_ch)			
		step2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1 ,CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			ATT = 0
14		START T_dly(5000)			
15		?TIMEOUT T_dly			
16		+MM_PwrOrSimOff(C_SIMneedRmv)			
17		+MM_PwrOrSimOn (C_SIMneedRmv)			
18		+MM_LUPper2(420000, C_periodic_updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv(30))			3)
19		+ChanRel_end(TCV_ch)			

Detailed Comments : 1) Reducing of the timer T3212
2) MS shall use the new value of T3212 for periodic updating.
3) MS shall start the periodic location updating between 0 sec. and 6min after switching on of MS.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_2

Group : MM/

Purpose : To verify that the MS stops and resets the timer T3212 of the periodic location updating procedure when:
- the first MM−message is received in the case of MM−connection establishment, ciphering mode being not set,
- the MS has responded to paging and the first correct L3 message is received that is not an RR message

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN.It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_2, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+InitCall(TCV_Service)			
5		START T_dly(705000)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
9	L_0373	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)	(P)	
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_30(C_rc_networkfailure))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+ChanRel(TCV_ch)			
13		?TIMEOUT T_dly			
14		+local_continue			
		local_continue			
15		+MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv(30))			
16		+ChanRel(TCV_ch)			
17		START T_dly(60000)			
18		?TIMEOUT T_dly			
19		+ltree_continue1			
		ltree_continue1			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(MiImsi_01))		
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
24		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
25		ACTIVATE(OtherEventsFail)			Restore Normal default
26		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			1.
27		+ChanRel(TCV_ch)			2.
28		START T_dly(705000)			
29		?TIMEOUT T_dly			
30		+MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv(30))			
31		+ChanRel_end(TCV_ch)			

Detailed Comments : 1. MS shall stop the timer T3212 after receiving of the first L3−message
2. MS shall reset and restart the timer T3212

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_3

Group : MM/

Purpose : To verify that the MS stops and resets the timer T3212 of the periodic location updating procedure when a Location Updating Accept or a Location Updating Reject message is received.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and CKSN.It is "idle updated" on cell A.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell B.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_2, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
4	body	+Switchcell(C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
5		+MM_LUP3(C_MCC_1, C_PLMN_2, TCV_lac, C_normal_updating, TimingAdv(30))			1)
6		+NoReaction(345000)			
7		+MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_2, TCV_lac, TimingAdv(30))			
8		+ChanRel(TCV_ch)			
9		+ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)			2)
10		+ImsiAttach(MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_2, C_SIMneedRmv)			
11		+NoReaction(345000)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_2, TCV_lac, TimingAdv(30))			
13		+ChanRel_end(TCV_ch)			
Detailed Comments : 1) MS shall reset the timer T3212 after normal location updating 2) MS shall reset the timer T3212 after IMSI attach procedure.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_4_1

Group : MM/

Purpose : To verify that when a cell of the HPLMN becomes available, following the successful location request on the VPLMN of the home country and after the first search the mobile has failed to find its HPLMN, that the MS shall perform a location update request on the HPLMN after time T. Were T is the HPLMN Search Period stored in the SIM.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.
The Location Area Information on the SIM is deleted.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1020)			
2		(TCV_Null := OO_SIM2Ins())			
3		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1)
4	body	+MM_PwrOrSimOn (C_SIMneedRmv)			
5		+MM_LupInit5(C_normal_updating, TimingAdv(30))			
6		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac))		PLMN2
7		+ChanRel(TCV_ch)			
8		+NoReaction(480000)			
9		+ltree_continue			
		ltree_continue			
10		+StartCellA(C_E_default, C_Immass,TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
11		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
12		START T_dly(480000)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_0374	?TIMEOUT T_dly		(F)	
14		+MM_LupInit4(C_normal_updating, TimingAdv(30))			
15	L_0375	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))	(P)	PLMN1
16		+ChanRel_end(TCV_ch)			
Detailed Comments : 1) Initial condition: LAI deleted, HPLMNsearchperiod=6min					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_4_2

Group : MM/

Purpose : To verify that no HPLMN Search is performed when the MS is not in automatic mode

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.
The Location Area Information on the SIM is deleted.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell B.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(420)			
2		(TCV_Null := OO_SIM2Ins())			
3		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1)
4	body	+MM_PwrOrSimOn (C_SIMneedRmv)			
5		+MM_LupInit5(C_normal_updating, TimingAdv(30))			
6		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac))		PLMN2
7		+ChanRel(TCV_ch)			
8		+ltree_continue			
		ltree_continue			
9		(TCV_Null := OO_PLMNselModeMan())			2)
10		+StartCellA(C_E_default, C_Immass,TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			3)
11		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
12		+NoReaction(420000)			

Detailed Comments : 1) Initial condition: LAI deleted, HPLMN searchperiod = 6min
2) MS in manual mode.
3) made cell A available.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_5_4_3

Group : MM/

Purpose : To verify that the MS waits at least 2 minutes and at most T minutes before attempting its first HPLMN Search.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.
The Location Area Information on the SIM is deleted.

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(480)			
2		(TCV_Null := OO_SIM2Ins())			
3		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1)
4	body	+MM_PwrOrSimOn (C_SIMneedRmv)			
5		+MM_LupInit5(C_normal_updating, TimingAdv(30))			
6		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac))		PLMN2
7		+ChanRel(TCV_ch)			
8		+ltree_continue			
		ltree_continue			
9		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			2)
10		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
11		+NoReaction(120000)			
12		START T_dly(360000)			3)
13	L_0376	?TIMEOUT T_dly		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+MM_LupInit6(C_normal_updating, TimingAdv(30))			
15		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		PLMN1
16		+ChanRel_end(TCV_ch)			
Detailed Comments :		1) Initial condition: LAI deleted, HPLMNsearchperiod=6min 2) made cell A available. 3) MS shall send the messages on cell A within T minutes. T means HPLMN search period.			

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_4_6

Group : MM/

Purpose : 1) To check that if the PLU timer expires while the MS is out of coverage, the MS informs the network of its return to coverage.
2) To check that the PLU timer is not disturbed by cells of forbidden PLMNs.
3) To check that if the PLU timer does not expire while out of coverage and if the mobile returns to the LA where it is updated, the mobile does not inform the network of its return to coverage.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is deactivated. The PLMN of cell B is entered in the SIM's forbidden PLMN list.

Foreseen final state of the MS:
The MS is "idle updated". The PLMN of cell B is entered in the SIM's forbidden PLMN list.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(2100)			
2		+IdleUpdated(C_E_neighbourdefault, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_PLMNnot, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			PR 1)
3		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
4		+Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
5		+MM_LUP(MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TimingAdv(30))			PR 2)
6		+MM_PwrOrSimOff (C_SIMneedRmv)			
7		+ltree_StartCellAandB			
8	body	+ltree_body1			
9		+ltree_body2			
10		+ltree_body3			
11		+RmvForbiddenPlmn(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_body1			
12		+MM_PwrOrSimOn(C_SIMneedRmv)			1)
13		START T_dly1(C_T_Wait1stChReq)			
14		+ltree_perluprest(C_imsi_attach)			2)
15		START T_dly1(705000)			3)
16		+NoReaction(60000)			
17		(TCV_Null := OM_StopCell(C_CellA))			
18		+NoReaction(420000)			
19		+ltree_StartCellAandB			
20	L_0377	?TIMEOUT T_dly1		(P)	3)
		ltree_body2			
21		START T_dly1(30000)			
22		+ltree_perluprest(C_periodic_updating)			4)
23		+NoReaction(180000)			
24		(TCV_Null := OM_StopCell(C_CellA))			
		ltree_body3			
25		+NoReaction(660000)			5)
26		+ltree_StartCellAandB			
27		(TCV_Null := OM_StopCell(C_CellB))			
28		START T_dly1(180000)			
29		+ltree_perluprest(C_periodic_updating)			6)
		ltree_perluprest(locup : B_2)			
30	L_0378	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly1	ChReq(ChRequest_02)	(P)	
31		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
32		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
33	L_0379	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))	(P)	
34		ACTIVATE(OtherEventsFail)			Restore Normal default
35		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		
36		+ChanRel(TCV_ch)			
37	L_0380	?TIMEOUT T_dly1		(F)	
		ltree_StartCellAandB			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
38		+StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_2, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_01, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
39		+StartCellB(C_E_neighbourdefault, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			

Detailed Comments : PR1) Initial condition: The PLMN of cell B is entered in the SIM's forbidden PLMN list.
PR2) Initial condition: Idle updated in cell A.

1) MS is in automatic network selection mode.
2) IMSI attach procedure
3) Conformance Requirement 1
   Delay for 11 min and 40 seconds. In this time MS may not location update in cell A.
4) The MS shall execute the periodic location updating after 12 min.
5) Conformance Requirement 5
   No Reaction in 7 min. In this time MS may not location update in cell B.
6) The MS shall execute the periodic location updating before 17 min after last periodic LUP.

PS1) Final postamble: The PLMN of cell B is supressed on the SIM's forbidden PLMN list.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_2

Group : MM/

Purpose : To verify that the MS can correctly set up an MM connection in an originating CM connection establishment when ciphering mode setting is not required.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated".
Expected values in the SIM card: TMSI: MiTmsi_01, CKSN: TSPX_CKSNDef

Foreseen final state of the MS:
The MS has valid TMSI and CKSN.It is "idle updated".

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCM(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8	L_0381	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(MiTmsi_01, TSPX_CKSNDef))	(P)	
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
11		+Ciphering_on(TCV_ch)			
12		+ltree_CMmsgs			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+ChanRel_end(TCV_ch)			
		ltree_CMmsgs			
14		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
15	L_0382	L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_04(TCV_TI))	(P)	
16		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI.ti_f := '1'B)	Register_01(TCV_ch, RegisterPdu_01)		
17		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_08(TCV_TI))		
18		L?DL_EstIn	DLEstInd_2(TCV_ch)		
19		L?DL_DatInCpData (TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_TI0 := DL_DatInCpData.msg.ti, TCV_TI.ti_v := TCV_TI0.ti_v, TCV_TI.ti_f := '1'B)	DatInCpData(TCV_ch, CpDataPdu_04)		
20		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_03(TCV_TI), TCV_ch)		
21		L!DL_DatRqCpData	DatRqCpData(CpDataPdu_02(TI_08(TCV_TI.ti_v), CpData_04(TCV_Rpmr)), TCV_ch)		
22	L_0383	L?DL_DatInCpDataAck	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_TI0.ti_v)))	(P)	
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_3

Group : MM/

Purpose : To verify that the MS can correctly set up an MM connection in an originating CM connection establishment when ciphering mode setting is not required.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated".

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated".

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCM(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8	L_0384	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)	(P)	
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
11		+ltree_msgs			
12		+ChanRel_end(TCV_ch)			
		ltree_msgs			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_1042	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)	(P)	
14	L_0385	L?DL_DatInRegister	Register_01(TCV_ch, RegisterPdu_01)	(P)	
15		L?DL_EstIn	DLEstInd_2(TCV_ch)		
16		L?DL_DatInCpData (TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_TI0 := DL_DatInCpData.msg.ti, TCV_TI := TCV_TI0, TCV_TI.ti_f := '1'B)	DatInCpData(TCV_ch, CpDataPdu_04)		
17		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_03(TCV_TI), TCV_ch)		
18		L!DL_DatRqCpData	DatRqCpData(CpDataPdu_02(TI_08(TCV_TI.ti_v), CpData_04(TCV_Rpmr)), TCV_ch)		
19	L_0386	L?DL_DatInCpDataAck	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_TI0.ti_v)))	(P)	
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_4

Group : MM/

Purpose : To verify that the MS does not send a layer 3 message when the service request is rejected by the SS.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated".

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated".

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(420)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8	L_0387	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)	(P)	
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_30(C_rc_reqservoptnotsub))		
11		+NoReaction(5000)			
12		+ChanRel_end(TCV_ch)			

Detailed Comments :

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_5

Group : MM/

Purpose : To verify that the MS can correctly accept a CM SERVICE REJECT message with reject cause "IMSI unknown in VLR".

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated".
Expected values in the SIM card: TMSI: MiTmsi_01, CKSN: TSPX_CKSNDef

Foreseen final state of the MS:
The MS has valid TMSI and CKSN. It is "idle updated".

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8	L_0388	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_32(MiTmsi_01, TSPX_CKSNDef))	(P)	1.
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_30(C_rc_imsiunknownvlr))		
11		+ChanRel(TCV_ch)			2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+MM_LUPauth2(MiTmsi_01iei,MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			3.
13		+ChanRel_end(TCV_ch)			

Detailed Comments : 1. Conformance Requirement
The MS shall be able to correctly set up an MM connection in a Mobile Originating CM connection attempt.
2. Conformance Requirement
The MS shall wait for the network to release the RR connection
3. Conformance Requirement
The MS shall be able to perform a location updating procedure.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_6

Group : MM/

Purpose : To verify that at T3230 expiry, the MS aborts the MM−connection establishment.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI. It is "idle updated".

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated".

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		
8	L_0389	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)	(P)	
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+NoReaction(C_T_T3230min)			
11	L_0390	L?DL_DatInMmst	MMSt(MMstatus_03)	(P)	1.
12		+ChanRel_end(TCV_ch)			

Detailed Comments : 1. The MS shall abort the MM connection after T3230 expiry.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_7_1

Group : MM/

Purpose : To check that upon reception of an ABORT message with cause #6 during call establishment:
- the MS does not send any layer 3 message.
- after reception of an ABORT message and after having been deactivated and reactivated, the MS performs location updating using its IMSI as mobile identity and indicates deleted LAI and CKSN.
- the MS does not perform location updating, does not answer to paging with TMSI, rejects any request for mobile originating call except emergency call, does not perform IMSI detach.
- the MS accepts a request for emergency call.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI, CKSN and Kc.It is "idle updated on cell B".

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartCellA(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			
5		+InitCall(TCV_Service)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9	L_0391	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)	(P)	
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
12		L!DL_DatRqAbrt	Abort(TCV_ch, Abortmsg_01(C_rc_illegal_me))		
13		+ltree_continue			
		ltree_continue			
14		+NoReaction(5000)			1.
15		+ChanRel(TCV_ch)			
16		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
17		+NoReaction(5000)			2.1.
18		+NoReaction(420000)			2.2.
19		+MM_no_paging(MiTmsi_01, 3000, TCV_Ccd0B, C_CellB)			2.3.
20		+ltree_continue1			
		ltree_continue1			
21		+SelectPagingCh(C_CellA)			re−select active cell
22		+MM_no_cmservices(3000)			2.4.
23		+MM_check_ecall1(TimingAdv(30), MiImei_01)			3.
24		+ImsiDetachNoReaction(3000, C_SIMneedRmv)			7.
25		+MM_PwrOrSimOn (C_SIMneedRmv)			
26		+MM_LUPauth2(MiTmsi_01iei, MiImsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TSPX_RANDDef, TimingAdv(30))			4.
27		+ChanRel(TCV_ch)			

Detailed Comments : After ABORT with the cause_value 'illegal_me' the MS shall

1. Conformance requirement 1:
   MS shall wait for network command.
2. Conformance requirement 2:
   2.1. not perform location updating
   2.2. not perform periodic location updating
   2.3. not respond to paging with TMSI
   2.4. reject any request for MOC establishment with except emergency call.
   2.5. not perform IMSI detach.
3. Conformance requirement 3:
   if it support speech, perform emergency call.
4. Conformance requirement 4:
   delete stored LAI, CKSN and TMSI

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_7_2

Group : MM/

Purpose : To check that when multiple MM connections are established, the MS releases all MM connections upon reception of an ABORT message, in the case when the two MM connections are established for a mobile terminating call and a non call related supplementary service operation.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS is in state U10 of a mobile terminating call.

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10_late(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	+InitNonCallSupp			1.
7	L_0392	L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)	(P)	
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		L?DL_DatInRegister	Register_01(TCV_chTch, RegisterPdu_01)		
10		L!DL_DatRqAbrt	Abort(TCV_chTch, Abortmsg_01(C_rc_networkfailure))		2.
11		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12	L_0393	L?DL_DatInRelCmp	RelComRcv(ReleaseCmpRcv(TI_01, Cause_07))	(P)	
13		+ChanRel_end(TCV_chTch)			

Detailed Comments : 1. Initiate a non call related supplementary service.
2. Upon reception of an ABORT−message the MS shall release any ongoing MM connection.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_8_1

Group : MM/

Purpose : To check that when the network does not include the follow on proceed IE in a LOCATION UPDATING ACCEPT message, a MS that has a CM application request pending does not attempt to establish a new MM connection on that RR connection.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and is deactivated.

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			att=1
3	body	+ImsiAttachIni (MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
4		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
5		+InitCall(TCV_Service)			
6		?TIMEOUT T_dly			
7		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(C_MCC_1, C_PLMN_1, TCV_lac))		1.
8		+NoReaction(8000)			2.
9	post	+ChanRel_end(TCV_ch)			

Detailed Comments : 1. Follow on proceed IE not included.
2. MS shall not send any layer 3 message for 8 seconds after reception of Location Updating Acc.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_8_2

Group : MM/

Purpose : To check that when the network includes the follow on proceed IE in a LOCATION UPDATING ACCEPT message, a MS that supports the follow on request procedure and that has a CM application request pending establishes successfully a new MM connection on that RR connection.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS:
The MS has valid TMSI and is deactivated.

Foreseen final state of the MS:
The MS has valid TMSI. It is "idle updated" on cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			att=1
3	body	+ImsiAttachIni (MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
4		+BasicServiceMO(TSPX_MOBscSvcI, TSPX_MOChRateI)			
5		+InitCM(TCV_Service)			
6		?TIMEOUT T_dly			
7		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_02(C_MCC_1, C_PLMN_1, TCV_lac))		1.
8		[NOT TSPC_followOnReq]			
9		+NoReaction(8000)			
10		+ChanRel_end(TCV_ch)			
11		[TSPC_followOnReq]			
12		+CMsrvcRq			
13	post	+ChanRel_end(TCV_ch)			

Detailed Comments : 1. Follow on proceed IE included.

Test Case Dynamic Behaviour

Test Case Name : TC_26_7_5_8_3

Group : MM/

Purpose :
1) To check that a MS that has no CM application request pending sets the Follow−On−Request bit to No follow−on request pending in a LOCATION UPDATING REQUEST message.
2) To check that when the network includes the follow on proceed IE in a LOCATION UPDATING ACCEPT message, a MS that has no CM application request pending does not attempt to establish a new MM connection on that RR connection.
3) To check that the MS accepts establishment by the network of a new MM connection on the existing RR connection.

Configuration :

Default : OtherEventsFail

Comments : Initial Conditions of MS: The MS has valid TMSI and is deactivated.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			att=1
4	body	+ImsiAttachIni (MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
5		L!DL_DatRqLupAcp CANCEL T_dly	LocAcp(TCV_ch, LocUpdtAcp_02(C_MCC_1, C_PLMN_1, TCV_lac))		1.
6		+NoReaction(5000)			2.
7		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
8	L_0394	L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	
9		+ChanRel_end(TCV_ch)			
10	L_0395	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	
11		+ChanRel_end(TCV_ch)			

Detailed Comments :
1. Follow on proceed IE included.
2. MS shall not send any layer 3 message for 5 seconds after reception of Location Updating Acc.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_1_1

Group : CC/

Purpose : To verify that upon initiation of an outgoing basic call by user the MS initiates establishment of an MM connection, using as first MM message a CM−SERVICE REQUEST message with CM service type "Mobile originating call establishment or packet mode connection establishment".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5	body	+InitCall(TCV_Service)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_19)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TCV_tch_arfcn, C_normal_paging))		1.
9		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To assign TCH channel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_2_1

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U0.1, "MM−connection pending", upon the MS receiving a CM SERVICE REJECT message, returns to CC state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcA, TSPX_MOChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU01_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_01)		2.
7		+CheckTIsInStateU0(TRUE, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. To reject the CM−SERVICE REQUEST.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_2_2

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U0.1, "MM−connection pending", upon the MS receiving a CM SERVICE ACCEPT message, sends a SETUP message specifying the Called party BCD number that was entered into the MS and then enters CC state U1, "Call initiated".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcB, TSPX_MOChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU01_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
7		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			2.
8		(TCV_CalledNum := TCV_Setup_mo1.cdpn, TCV_Res := OO_CalledPtyNumCHK(TCV_CalledNum))			
9	L_0396	[NOT TCV_Res]		(F)	3.
10		+PostMainLinkRel(TCV_ch)			
11	L_0397	[TCV_Res]		(P)	
12		+CCstatuschk_05(C_U1, TCV_TI,TCV_ch)			4.
13		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. To receive the SETUP message with called party BCD number.
3. The called party number contained in the SETUP message is not the one entered.
4. To check whether the MS is in state U1.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_2_3

Group : CC/

Purpose : To verify that after the MS with a CC entity in state U0.1, "MM−connection pending", has detected a lower layer failure and has returned to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU01_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	(TCV_Null := OM_LowerLayerFail(TCV_ch))			
7		START T_dly(20000)			
8		?TIMEOUT T_dly			
9		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
10		+CheckTIsInStateU0(TRUE, TCV_ch)			
11		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_1

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon receipt of a CALL PROCEEDING message, enters CC state U3, "Mobile originating call proceeding".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcD, TSPX_MOChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
8		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			2.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. Check that CC state is U3.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_2

Group : CC/

Purpose :
1) To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon receipt of a RELEASE COMPLETE message with valid cause value, enters CC state U0, "Null".
2) To verify that in returning to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".
3) To verify that in releasing the MM−connection, the MS shall wait for MM layer release initiated by SS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcE, TSPX_MOChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_04(TCV_TI))		
8		+CheckTIsInStateU0(TRUE, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_3

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon expiry of T303 (accuracy +/−20% between reception of CM−SERVICE REQUEST and DISCONNECT by SS) sends a DISCONNECT message to its peer entity and enters state U11, "Disconnect request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_22Timer(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L?DL_DatInDisc (TCV_Fn1 := DL_DatInDisc.fn) READTIMER T_dly (TCV_Time), CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(P)	
8	L_0398	[(TCV_Time < 24000) OR (TCV_Time >= 36000)]		(F)	
9		+PostMainLinkRel(TCV_chTch)			
10	L_0399	[(TCV_Time >= 24000) AND (TCV_Time < 36000)]		(P)	
11		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_4

Group : CC/

Purpose : To verify that after the MS with a CC entity in state U1 "Call initiated", has detected a lower layer failure and has returned to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcG, TSPX_MOChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			3.
8		START T_dly(20000)			
9		?TIMEOUT T_dly			4.
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			5.
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. To bring the MS into U1 state.
3. A layer failure generated in the test system.
4. Waiting for the MS return to idle state.
5. To check that CC entities related to all transaction identifiers are return to idle.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_5

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon receipt of an ALERTING message, enters CC state U4, "Call delivered".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcH, TSPX_MOChRateH)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
8		+CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_6

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon receipt of a CONNECT message, sends a CONNECT ACKNOWLEDGE message to its peer entity and enters CC state U10, "Active".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcI, TSPX_MOChRateI)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU1_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
8		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
9		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_3_7

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U1, "Call initiated", upon receipt of a message with message type not defined for the protocol discriminator unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU1_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	L!DL_DatRqUndefCC	UndefCC(TCV_ch, UndefCC_02(TCV_TI))		2.
7	L_0400	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_08(TCV_TI0, C_U1))	(P)	3.
8		+CCstatuschk_05(C_U1, TCV_TI, TCV_ch)			4.
9		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. Message type not defined for CC.
3. The expected STATUS message received.
4. To check whether the MS is still in CC state U1.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_1

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a ALERTING message enters CC−state U4, "Call Delivered".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcA, TSPX_MOChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
8		+CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_2

Group : CC/

Purpose : 1) To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a CONNECT message returns a "CONNECT ACKNOWLEDGE" message to its peer entity and enters the CC state U10, "Active".
2) To verify that the MS stops locally generated indication, if any.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcB, TSPX_MOChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
8		(TCV_Res := OO_ToneStopCHK())			
9		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
10	L_0401	[TCV_Res]		(P)	
11		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel(TCV_chTch)			
13	L_0402	[NOT TCV_Res]		(F)	
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_3

Group : CC/

Purpose : 1) To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a PROGRESS message with valid cause values stays in CC−state U3.
2) To verify that after receipt of the PROGRESS message timer T310 is stopped.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqProg	Progress(TCV_chTch, Progress_01(TCV_TI))		
8		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			2.
9		START T_dly(45000)			3.
10	L_0403	L?DL_DatInDisc CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(F)	
11		+PostMainLinkRel(TCV_chTch)			
12		?TIMEOUT T_dly			
13		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			4.
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select2 a circuit switched basic service for testing.
2. To check that CC state is U3
3. To check that the MS has stopped T310.
4. To check that CC state is still U3

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_4

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a PROGRESS message indicating in−band announcement through−connects the traffic channel for speech, if TCH is in speech mode. If TCH is not in a speech mode, the MS does not through−connect the TCH.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcD, TSPX_MOChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqProg	Progress(TCV_chTch, Progress_02(TCV_TI))		
8		(TCV_Res := OO_TCHThroConnCHK())			
9		[TCV_ChMod.mode = C_ChMod_r]			2.
10	L_0404	[TCV_Res]		(P)	
11		+localtree			
12	L_0405	[NOT TCV_Res]		(F)	
13		+PostMainLinkRel(TCV_chTch)			
14		[TCV_ChMod.mode<> C_ChMod_r]			3.
15	L_0406	[NOT TCV_Res]		(P)	
16		+localtree			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	L_0407	[TCV_Res]		(F)	
18		+PostMainLinkRel(TCV_chTch)			
		localtree			
19		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			4.
20		START T_dly(45000)			5.
21	L_0408	L?DL_DatInDisc CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(F)	
22		+PostMainLinkRel(TCV_chTch)			
23		?TIMEOUT T_dly			
24		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			6.
25		(TCV_Res := OO_TCHThroConnCHK())			
26		[TCV_ChMod.mode = C_ChMod_r]			7.
27	L_0409	[TCV_Res]		(P)	
28		+PostMainLinkRel(TCV_chTch)			
29	L_0410	[NOT TCV_Res]		(F)	
30		+PostMainLinkRel(TCV_chTch)			
31	L_0411	[TCV_ChMod.mode<> C_ChMod_r]		(P)	
32		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To check if the TCH is connected through if the channel mode is speech, so that the inband information may be heard.
3. To check if the TCH is not connected through if the channel mode is not speech.
4. To check that CC is in state U3.
5. To check that the MS has stopped T310
6. To check that CC is still in state U3.
7. To check if the TCH is connected through if the channel mode is speech.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_5

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a DISCONNECT with progress indicator #8 through−connects the speech channel to make in−band announcements available, if traffic channel is in speech mode. If TCH is not in speech mode, the MS sends a RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcE, TSPX_MOChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		
8		[TCV_ChMod.mode = C_ChMod_r]			
9		(TCV_Res := OO_TCHThroConnCHK())			
10	L_0412	[TCV_Res]		(P)	2.
11		+CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)			3.
12		+PostMainLinkRel(TCV_chTch)			
13	L_0413	[NOT TCV_Res]		(F)	
14		+PostMainLinkRel(TCV_chTch)			
15		[TCV_ChMod.mode <> C_ChMod_r]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16	L_0414	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
17		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			4.
18		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To check that the TCH is connected through if channel mode is speech.
3. To check that CC is in state U12.
4. To check that CC is in state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_6

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a DISCONNECT without progress indicator returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
8		L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		
9		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			2.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.
2. To check that CC is in state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_7

Group : CC/

Purpose :
1) To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon receipt of a RELEASE will return a RELEASE COMPLETE and enter the CC−state U0, "Null".
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null".
3) To verify that in releasing the MM−connection, the MS shall wait for MM layer release initiated by SS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcG, TSPX_MOChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
8	L_0415	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	
9		+CheckTIsInStateU0(TRUE, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_8

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcH, TSPX_MOChRateH)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU3_23(TSPX_SDCCH4SubDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
6	body	(TCV_Null := OO_TermCall())			
7	L_0416	L?DL_DatInDisc	DiscRcv(TCV_ch, DisconnR(TCV_TI0, Cause_Def))	(P)	3.
8		+CCstatuschk_05(C_U11, TCV_TI, TCV_ch)			4.
9		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To initiate MO call and bring the MS into U3 state.
3. The expected DISCONNECT received.
4. To check whether the MS is in CC state U11.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_9

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding", when allocated a traffic channel by the network performing the assignment procedure, performs a layer 2 establishment on the FACCH without changing the state of the call in progress.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_23(TSPX_SDCCH4SubDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
7	body	+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			2.
8		+CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)			3.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To assign traffic channel.
3. To check that the MS is in state U3.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_10

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding" will, upon expiry of timer T310, initiate call release by sending DISCONNECT and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU3_23(TSPX_SDCCH4SubDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
6	body	START T_dly1(45000)			
7	L_0417	?TIMEOUT T_dly1		(F)	3.
8		+PostMainLinkRel(TCV_ch)			
9		L?DL_DatInDisc	DiscRcv(TCV_ch, DisconnR(TCV_TI0, Cause_Def))		
10		READTIMER T_dly1 (TCV_Time), CANCEL T_dly1			
11	L_0418	[TCV_Time < 29400]		(F)	4.
12		+PostMainLinkRel(TCV_ch)			
13	L_0419	[TCV_Time >= 29400]		(P)	
14		+CCstatuschk_05(C_U11, TCV_TI, TCV_ch)			5.
15		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To initiate MO call and bring the MS into U3 state.
3. T310 >= 45 seconds, fail.
4. T310 < 29.4 seconds, fail.
5. To check that the MS is in the state U11.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_11

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding" having detected a lower layer failure and having returned to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcA, TSPX_MOChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU3_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			
8		START T_dly(20000)			
9		?TIMEOUT T_dly			3.
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			4.
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. To setup the full rate or half rate traffic channel .
3. Waiting for the MS return to idle state.
4. To check that CC entities related to all transaction identifiers are return to idle.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_12

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U3, "Mobile Originating Call Proceeding" having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU3_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	L!DL_DatRqUndefCC	UndefCC(TCV_ch, UndefCC_02(TCV_TI))		2.
7	L_0420	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_08(TCV_TI0, C_U3))	(P)	3.
8		+CCstatuschk_05(C_U3, TCV_TI, TCV_ch)			4.
9		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To send a message which type is not defined for the CC.
3. The expected STATUS message received.
4. To check wether the MS is still in the CC state U3.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_4_13

Group : CC/

Purpose : To verify that if the user connection is not attached to the radio path, the MS generates internally an alerting indication when the call control entity of the MS in the "mobile originating call proceeding" state receives an ALERTING message then it enters "call delivered" state and, for speech calls, if the user connection is not attached to the radio path, the MS shall internally generate an alerting indication.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+SpeechService			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		+PreEnterCCstateU3_21(TSPX_SDCCH4SubDef, TimingAdv(0))			
6	body	L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
7		(TCV_Res := OO_AltIndCHK())			
8	L_0421	[TCV_Res]		(P)	1.
9		+CCstatuschk_05(C_U4, TCV_TI, TCV_ch)			2.
10		+PostMainLinkRel(TCV_ch)			
11	L_0422	[NOT TCV_Res]		(F)	3.
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. The Ms generates a alerting indication to the user.
2. To check whether the MS is in CC state U4.
3. The MS does not generate a alerting indication to the user.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_1

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", upon receipt of the CONNECT message returns a CONNECT ACKNOWLEDGE to its peer entity and enters the CC−state U10, "Active".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_23(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
7	body	L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
8	L_0423	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	2.
9		(TCV_Res := OO_AltIndCHK())			
10	L_0424	[TCV_Res]		(F)	
11		+PostMainLinkRel(TCV_chTch)			3.
12	L_0425	[NOT TCV_Res]		(P)	4.
13		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			5.
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To set a physical channel as BCCH, CCCH and SDCCH4.
2. The expected CONNECT ACKNOWLEDGE received.
3. Alerting does not stop.
4. Alerting stopped.
5. To check whether the MS is in state U10.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_2

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_23(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
7	body	(TCV_Null := OO_TermCall())			
8	L_0426	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(P)	2.
9		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			3.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. The expected DISCONNECT message received.
3. To check whether the MS enters into the state U11.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_3

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", upon receipt of a DISCONNECT with a progress indicator indicating in−band information, through−connects the speech channel to make in−band announcements available, if traffic channel is in speech mode. If TCH is not in speech mode, the MS shall send a RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcE, TSPX_MOChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		
8		[TCV_ChMod.mode = C_ChMod_r]			
9		+CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			
11		[TCV_ChMod.mode <> C_ChMod_r]			
12	L_0427	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
13		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_4

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", upon receipt of a DISCONNECT without progress indicator, returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
8	L_0428	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
9		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_5

Group : CC/

Purpose :
1) To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", upon receipt of the RELEASE message will respond with the RELEASE COMPLETE message and enter the CC−state U0, "Null"
2) To verify that the MS on returning the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcG, TSPX_MOChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
8	L_0429	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	
9		+CheckTIsInStateU0(TRUE, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_6

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered" having detected a lower layer failure and has returned to idle mode, the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcH, TSPX_MOChRateH)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			
8		START T_dly(20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_7

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", when allocated a traffic channel by the network performing the assignment procedure, shall perform a layer 2 establishment on the FACCH without changing the state of the call in progress.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_21(TSPX_SDCCH4SubDef, TimingAdv(0))			2.
7	body	+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			3.
8		+CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)			4.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To initiate MO call and bring the MS into U4 state.
3. The assignment procedure succeeds.
4. To check that the MS is still in state U4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_5_8

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U4, "Call Delivered", having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU4_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TCV_TI))		3.
8		L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TCV_TI0, C_U4))		
9		+CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.
2. To setup the full rate or half rate traffic channel and BCCH, CCCH for the test.
3. To send a CC message which message type is undefined for the CC.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_1

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U10, "Call Active", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+InitCall(TCV_Service)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	(TCV_Null := OO_TermCall())			
8	L_0430	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(P)	3.
9		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			4.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To bring the MS into U10 state.
3. The expected DISCONNECT message received.
4. To check whether the MS enters the state U11.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_2

Group : CC/

Purpose :
1) To verify that the a CC−entity of the MS in CC−state U10, "Call Active", upon receive of the RELEASE will respond with the RELEASE COMPLETE message and enter the CC−state U0, "Null"
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null"

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+InitCall(TCV_Service)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreEnterCCstateU10_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
8	L_0431	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	3.
9		+CheckTIsInStateU0(TRUE, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To bring the MS into U10 state.
3. The expected RELEASE COMPLETE message received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_3

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U10, "Call Active", upon receipt of a DISCONNECT message with a Progress Indicator indicating in−band information, through−connects the speech channel to make in−band announcements available, if traffic channel is in speech mode. If TCH is not in speech mode, the MS sends a RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU10_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		3.
8		[TCV_ChMod.mode = C_ChMod_r]			
9		(TCV_Res := OO_TCHThroConnCHK())			4.
10	L_0432	[TCV_Res]		(P)	Inband info audible
11		+CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel(TCV_chTch)			
13	L_0433	[NOT TCV_Res]		(F)	No inband info audible

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+PostMainLinkRel(TCV_chTch)			
15		[TCV_ChMod.mode <> C_ChMod_r]			
16	L_0434	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
17		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			
18		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.
3. With progress indicator #8.
4. To check whether the audio path is connected for inband tones.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_4

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U10, "Call Active", upon receipt of a DISCONNECT message without progress indicator, returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcD, TSPX_MOChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU10_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		3.
8	L_0435	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
9		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.
3. Without progress indicator #8.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_5

Group : CC/

Purpose : 1) To verify that a CC entity of the MS in CC−state U10, "Call active" upon receipt of a RELEASE COMPLETE message with valid cause value, enters CC state U0, "Null".
2) To verify that in returning to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcE, TSPX_MOChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU10_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_04(TCV_TI))		
8		+CheckTIsInStateU0(TRUE, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_6_6

Group : CC/

Purpose : 1) To verify that a Mobile Station that has a call established and receives a SETUP message answers either with a CALL CONFIRMED message with cause "user busy" if it supports call waiting, or with a RELEASE COMPLETE message with cause "user busy" otherwise.

2) To verify that after having sent this message, the MS is still in state U10 for the established call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			1.
3		+BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+InitCall(TCV_Service)			
7		+PreEnterCCstateU10_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			3.
8	body	(TCV_Setup_mt.sig := Signal_02, TCV_Setup_mt.ti := TCV_TI0)			4.
9		L!DL_DatRqSetup	SetupSnd(TCV_chTch, TCV_Setup_mt)		5.
10	L_0436	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_10(TCV_TI))	(P)	6.
11		+CCstatuschk_05 (C_U10, TCV_TI, TCV_chTch)			7.
12		+PostMainLinkRel(TCV_chTch)			
13	L_0437	L?DL_DatInCallCo	CallCfm(CallConfirm_02(TCV_TI))	(P)	8.
14		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TCV_TI))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI0))		
16		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			7.
17		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. Select a MT service supported by the MS, The SETUP_PDU will be stored in TCV_Setup_mt.
2. To setup a physical channel as BCCH, CCCH and SDCCH4.
3. To bring the MS into the state U10 of a MO call.
4. a) add signal IE with "call waiting tone on" − b) Set TI value same as MO call and TI flag for MT.
5. To establish a second transaction for MT call with the same TI value as that in the MO call
6. Call waiting not supported.
7. To check whether the MS is still in the state U10.
8. Call waiting supported.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_7_1

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U11, "Disconnect Request", upon receipt of a DISCONNECT message, returns to its peer entity the RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU11_23(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
7	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
8	L_0438	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	3.
9		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			4.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To bring the MS into the state U11.
3. The expected RELEASE message received.
4. To check whether the MS enters the state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_7_2

Group : CC/

Purpose :
1) To verify that the a CC−entity of the MS in CC−state U11, "Disconnect Request", upon receipt of the RELEASE message shall return RELEASE COMPLETE and enter the CC−state U0, "Null".
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU11_23(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
8	L_0439	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	3.
9		+CheckTIsInStateU0(TRUE, TCV_chTch)			4.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To bring the MS into the state U11.
3. The expected RELEASE COMPLETE message received.
4. To check that the CC entities with relevant transaction identifiers are in the state U0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_7_3

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U11, "Disconnect Request" shall on expiry of T305, proceeds ahead with the connection release procedure by sending the RELEASE message to its peer entity and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU11_23Timer(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
7	body	(TCV_Cau0.iei := '00001000'B)			3.
8	L_0440	L?DL_DatInRel (TCV_Fn1 := DL_DatInRel.fn) READTIMER T_dly (TCV_Time), CANCEL T_dly	ReleaseRcv(Release_05(TCV_TI0, TCV_Cau0))	(P)	
9	L_0441	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	4.
10		+PostMainLinkRel(TCV_chTch)			
11	L_0442	[(TCV_Time >= 27000) AND (TCV_Time < 33000)]		(P)	5.
12		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			6.
13		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To bring the MS into the state U11.
3. Cause IE in DISCONNECT without IEI, add IEI to the Cause IE received from DISCONNECT.
4. Fail, if the timeout value of the T305 timer is either greater than or equal to 33 seconds, or less

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Test Case Dynamic Behaviour
Detailed Comments : ... than 27 seconds. 5. Pass, if the timeout value of T305 is OK. 6. To check whether the MS enters the state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_7_4

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U11, "Disconnect Request" having detected a lower layer failure returns to the idle mode. The CC entities relating to the seven mobile originating transaction identifiers are thus in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU11_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			
8		START T_dly(20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_7_5

Group : CC/

Purpose : To verify that the a CC−entity of the MS in CC−state U11, "Call Delivered" having received an unknown message from its peer entity shall return a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcA, TSPX_MOChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU11_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TCV_TI))		3.
8	L_0443	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TCV_TI0, C_U11))	(P)	
9		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.
3. To send a CC message which message type is undefined for the CC.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_8_1

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U12, "Disconnect Indication" being in network initiated call release phase, shall, upon receiving a call release request from the user sends a RELEASE to its peer entity and enters CC−state U19, "Release Request"

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+SpeechService			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_ChMod_r, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU12_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	(TCV_Null := OO_TermCall())			3.
8		L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		4.
9		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			5.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCHH4, and wait for the MS in service.
2. To bring the MS into the state U12.
3. MMI action, "on hook".
4. The expected RELEASE message received.
5. To check whether the MS is in the state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_8_2

Group : CC/

Purpose :
1) To verify that a CC−entity of the MS in CC−state U12, "Disconnect Indication", upon receipt of a RELEASE message returns to its peer entity the RELEASE COMPLETE message and enters the CC−state U0, "Null"
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile originating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+SpeechService			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_ChMod_r, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU12_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
8	L_0444	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	3.
9		+CheckTIsInStateU0(TRUE, TCV_chTch)			4.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCHH4, and wait for the MS in service.
2. To bring the MS into the state U12. Within the step a physical channel as appropriate traffic channel is setup.
3. The expected RELEASE COMPLETE message received.
4. To check whether the CC entities releated to the seven mobile originating transaction is in the state U0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_8_3

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U12, "Disconnect Indication" having detected a lower layer failure returns to idle mode. The CC−entities relating to the seven mobile originating transaction identifiers are thus in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+SpeechService			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU12_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			
8		START T_dly(20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments :

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_8_4

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U12, "Disconnect Indication" having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+SpeechService			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_ChMod_r, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU12_23(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
7	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TCV_TI))		3.
8		L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TCV_TI0, C_U12))		4.
9		+CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)			5.
10		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting for the MS in service.
2. To bring the MS into the state U12.
3. To send a CC message which message type is undefined for the CC.
4. The expected STATUS message with cause #97 received.
5. To check whether the MS is still in the state U12.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_9_1

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U19, "Release Request" will, upon the first expiry of timer T308 send the RELEASE message to its peer entity and remain in the CC−state U19.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU19_24Timer(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L?DL_DatInRel (TCV_Fn1 := DL_DatInRel.fn) READTIMER T_dly (TCV_Time), CANCEL T_dly	ReleaseRcv(Release_10(TCV_TI0))		Any cause value
8	L_0445	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	1.
9		+PostMainLinkRel(TCV_chTch)			
10	L_0446	[(TCV_Time >= 27000) AND (TCV_Time < 33000)]		(P)	2.
11		+CCstatuschk_05 (C_U19, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. Fail, if the T308 timer value is either greater than or equal to 33 seconds, or less than 27 seconds.
2. Pass, if the T308 timer value is OK.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_9_2

Group : CC/

Purpose :
1) To verify that a CC−entity of the MS in CC−state U19, "Release Request", upon the 2nd expiry of the timer T308, enters the CC−state U0, "Null".
2) To verify that subsequently the MS proceeds with releasing the MM−connection and enters the idle mode with the CC entities relating to the seven mobile originating transaction identifiers in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			2.
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU19_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		3.
8		+CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)			
9		START T_dly(50000)			
10	L_0447	?TIMEOUT T_dly		(F)	4.
11	L_0448	L?DL_RelIn START T_dly(10000)	DLRelInd_01	(P)	
12		?TIMEOUT T_dly			
13		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
14		+CheckTIsInStateU0(TRUE, TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a circuit switched basic service for testing.
2. To setup BCCH, CCCH and traffic channels.
3. First timeout of T308, release with any cause value accepted.
4. Second timeout of T308 (30 seconds), timeout of T3240 (10 seconds) and 10 seconds for the MS to return to listening to paging.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_9_3

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U19, "Release Request", upon receipt of a RELEASE, shall release the MM−connection and enters the CC−state U0, "Null" with the CC entities relating to the seven mobile originating transaction identifiers in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU19_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			
7	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_06(TCV_TI))		
8		+CheckTIsInStateU0(TRUE, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_9_4

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U19, "Release Request", upon receipt of a RELEASE COMPLETE, shall release the MM−connection and enters the CC−state U0, "Null" with the CC entities relating to the seven mobile originating transaction identifiers in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU19_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		3.
8		+CheckTIsInStateU0(TRUE, TCV_chTch)			4.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting the MS in service.
2. To bring the MS into the state U19.
3. To send a RELEASE COMPLETE message to the MS.
4. To check whether the CC entities related to the seven mobile originating transaction identifiers are in the state U0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_2_9_5

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U19, "Release Request", having detected a lower layer failure, returns to the idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+PreEnterCCstateU19_21(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))			2.
7	body	(TCV_Null := OM_LowerLayerFail(TCV_chTch))			3.
8		START T_dly(20000)			
9		?TIMEOUT T_dly			4.
10		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
11		+CheckTIsInStateU0(TRUE, TCV_ch)			5.
12		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting the MS in service.
2. To bring the MS into the state U19.
3. To generate lower layer failure in the lower emulator.
4. To wait for the MS back to listening to paging.
5. To check whether the CC entities related to the seven mobile originating transaction identifiers are in the state U0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_1_1

Group : CC/

Purpose : To verify that a CC entity of the MS, upon receipt of SETUP containing one bearer capability and this bearer capability is not supported, returns a RELEASE COMPLETE with correct cause value to its peer entity and return to the idle mode. To verify that the CC−entities relating to the seven mobile terminating transaction identifiers are then in the state U0, "NULL".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_SpecialCase := C_Yes)			
3		+BasicServiceMT(TSPX_MT_NonSptSvc, C_Full)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5	body	+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			2.
6		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
7		+Ciphering_on(TCV_ch)			
8		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		3.
9	L_0449	L?DL_DatInRelCmp	RelComRcv(ReleaseCmpRcv(TI_01, Cause_12))	(P)	4.
10		+CheckTIsInStateU0(FALSE, TCV_ch)			5.
11		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To assign SDCCH4 channel.
3. To send a SETUP message containing a bearer capability not supported by the MS.
4. The expected RELEASE COMPLETE message with cause #88 received.
5. To check that the CC entity is in state U0 with all the relevant transaction identifiers.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_2_1

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U6, "Call Present", shall upon receipt of a rejection indication of the incoming call from the user, shall send RELEASE COMPLETE with the appropriate cause value to its peer entity and enter the CC−state U0, "Null". The CC entities relating to the seven mobile terminating transaction identifiers are then in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcB, TSPX_MTChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		(TCV_Null := OO_SetRefuseCall())			
5		+PreEnterCCstateU6_32(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
6	body	L?DL_DatInRelCmp	RelComRcv(ReleaseCmpRcv(TI_01, Cause_13))	(P)	3.
7		+CheckTIsInStateU0(FALSE, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony, otherwise the selected basic service is indicated by TSPX_MTBscSvcA.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. The expected RELEASE COMPLETE message with cause #21 received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_1

Group : CC/

Purpose : To verify that a CC entity in CC−state U9, "MS Terminating Call Confirmed", (if signalled by the network in previous SETUP message that it may alert) will either send a ALERTING message to its peer entity and enter state U7, or send a CONNECT message to its peer entity and enter U8

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcB, TSPX_MTChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_32(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
5	body	L?DL_DatInConn	ConnRcv(Connect_01(TI_01))	(P)	3.
6		+CCstatuschk_05(C_U8, TI_02, TCV_ch)			
7		+PostMainLinkRel(TCV_ch)			
8	L_0450	L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))	(P)	4.
9		+CCstatuschk_05(C_U7, TI_02, TCV_ch)			
10		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. The expected CONNECT message received in case of the MS supporting immediate connect.
4. The expected ALERTING message received in case of the MS not supporting immediate connect.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_2

Group : CC/

Purpose : To verify that A CC−entity of the MS in CC−state U9, "MS Terminating Call Confirmed", when allocated a traffic channel by the network performing the assignment procedure, performs a layer 2 establishment on the FACCH, sends a ALERTING message and enters state U7.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcA, TSPX_MTNIC_ChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			2.
6	body	+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			3.
7	L_045 1	L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))	(P)	4.
8		+CCstatuschk_05(C_U7, TI_02, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony, otherwise the selected basic service is indicated by TSPX_MTNIC_BscSvcA and the channel rate is specified by TSPX_MTNIC_ChRateA.
2. Use SETUP message without signal IE.
3. Assign an appropriate traffic channel.
4. The expected ALERTING message received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_3

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U9, "MS Terminating Call Confirmed", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcB, TSPX_MTNIC_ChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			3.
5	body	(TCV_Null := OO_TermCall())			4.
6	L_0452	L?DL_DatInDisc	DiscRcv(TCV_ch, DisconnR(TI_01, Cause_Def))	(P)	5.
7		+CCstatuschk_05(C_U11, TI_02, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. Bring MS to state U9.
4. To terminate the call.
5. The expected DISCONNECT received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_4

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U9, "MS Terminating Call Confirmed", upon receipt of a DISCONNECT returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcC, TSPX_MTNIC_ChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			3.
5	body	L!DL_DatRqDisc	DiscSnd(TCV_ch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		4.
6	L_0453	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	5.
7		+CCstatuschk_05(C_U19, TI_02, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. Bring MS to state U9.
4. To send DISCONNECT message.
5. The expected RELEASE message received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_5

Group : CC/

Purpose :
1) To verify that a CC−entity of the MS in CC−state U9, "MS Terminating Call Confirmed", upon receipt of a RELEASE will return a RELEASE COMPLETE and enter the CC−state U0, "Null".
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile terminating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcD, TSPX_MTNIC_ChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			3.
5	body	L!DL_DatRqRel	ReleaseSnd(TCV_ch, Release_03(TI_02))		4.
6	L_0454	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	5.
7		+CheckTIsInStateU0(FALSE, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. Bring MS to state U9.
4. To send RELEASE message with cause = "normal, unspecified".
5. The expected RELEASE COMPLETE received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_6

Group : CC/

Purpose : To verify that a CC entity of the MS in CC−state U9, "MS Terminating Call Confirmed", having detected a lower layer failure returns to idle mode with the CC entities relating to the seven mobile terminating transaction identifiers in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcE, TSPX_MTNIC_ChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			3.
5	body	(TCV_Null := OM_LowerLayerFail(TCV_ch))			4.
6		START T_dly(20000)			5.
7		?TIMEOUT T_dly			
8		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
9		+CheckTIsInStateU0(FALSE, TCV_ch)			
10		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. Bring MS to state U9.
4. To generate lower layer failure.
5. To wait 20 s for the MS to return to listening to paging.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_3_7

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U9, "MS Terminating Call Confirmed" having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcF, TSPX_MTNIC_ChRateF)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			3.
5	body	L!DL_DatRqUndefCC	UndefCC(TCV_ch, UndefCC_02(TI_02))		4.
6	L_0455	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_08(TI_01, C_U9))	(P)	
7		+CCstatuschk_05(C_U9, TI_02, TCV_ch)			
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. One physical channel as BCCH, CCCH and SDCCH4.
3. Bring MS to state U9.
4. To send an unknown message.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_1

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", upon a user accepting the incoming call, shall send a CONNECT message to its peer entity and enter the CC−state U8, "Connect Request"

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcG, TSPX_MTNIC_ChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU7_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6		(TCV_Null := OO_HookOff())			
7	body	L?DL_DatInConn	ConnRcv(Connect_01(TI_01))	(P)	2.
8		+CCstatuschk_05(C_U8, TI_02, TCV_chTch)			3.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The expected CONNECT message received.
3. To check whether the MS is in the state U8. If not so the test case fails in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_2

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcH, TSPX_MTNIC_ChRateH)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU7_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	(TCV_Null := OO_TermCall())			
7	L_0456	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))	(P)	2.
8		+CCstatuschk_05(C_U11, TI_02, TCV_chTch)			3.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The expected DISCONNECT message received.
3. To check whether the MS is in the state U11. If not so the test case fails in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_3

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", upon receipt of a DISCONNECT with a progress indicator indicating in−band information from network, if a TCH was not assigned, returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcI,TSPX_MTNIC_ChRateI)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqDisc	DiscSnd(TCV_ch, DisconnS(TI_02, Cause_01, ProgInd_03iei, UuInfo_omit))		3.
6	L_0457	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	4.
7		+CCstatuschk_05(C_U19, TI_02, TCV_ch)			5.
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To setup a physical channels as BCCH, CCCH and SDCCH4.
3. To send DISCONNECT message with progress indicator indicating cause #8.
4. The expected RELEASE message received.
5. To check whether the MS is in the state U19.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_4

Group : CC/

Purpose :
1) To verify that a CC entity of a MS in CC−state U7, "Call Received", upon receipt of a RELEASE will return a RELEASE COMPLETE and enter the CC−state U0, "Null".
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile terminating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcJ, TSPX_MTNIC_ChRateJ)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqRel	ReleaseSnd(TCV_ch, Release_03(TI_02))		3.
6		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		4.
7		+CheckTIsInStateU0(FALSE, TCV_ch)			5.
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To setup a physical channels as BCCH, CCCH and SDCCH4.
3. To send RELEASE message with cause "Normal, unspecified".
4. The expected RELEASE COMPLETE message received.
5. To check that the CC entity has returned to state U0 with all transaction identifiers.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_5

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", having detected a lower layer failure returns to idle mode with the CC entities relating to the seven mobile terminating transaction identifiers in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcA, TSPX_MTNIC_ChRateA)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_32(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
5	body	(TCV_Null := OM_LowerLayerFail(TCV_ch))			
6		START T_dly(20000)			
7		?TIMEOUT T_dly			
8		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
9		+CheckTIsInStateU0(FALSE, TCV_ch)			
10		+PostMainLinkRel(TCV_ch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To setup a physical channel as BCCH, CCCH and SDCCH4.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_6

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcB, TSPX_MTNIC_ChRateB)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU7_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TI_02))		2.
7		L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TI_01, C_U7))		3.
8		+CCstatuschk_05(C_U7, TI_02, TCV_chTch)			4.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To send an unknown mesage to the MS.
3. The expeceted STATUS message with cause #97 and state U7 received.
4. To chweck that the MS remains in the state U7.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_7

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U7, "Call Received", when allocated a traffic channel by the network performing the assignment procedure, shall perform a layer 2 establishment on the FACCH without changing the state of the call in progress.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcC, TSPX_MTNIC_ChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU7_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
6	body	+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			2.
7		+CCstatuschk_05(C_U7, TI_02, TCV_chTch)			3.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The assignment procedure succeeded.
3. To check whether the MS remains in the state U7.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_4_8

Group : CC/

Purpose : 1) To verify that a CC entity of the MS in CC−state U7, "Call received", upon receipt of a RELEASE COMPLETE message with valid cause value, enters CC state U0, "Null".
2) To verify that in returning to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcD, TSPX_MTNIC_ChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_04(TI_02))		
6		+CheckTIsInStateU0(FALSE, TCV_ch)			3.
7		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To setup a physical channels as BCCH, CCCH and SDCCH4.
3. To check that the CC entities relating to the seven MT transaction identifiers are in state U0.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_1

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", upon receipt of CONNECT ACKNOWLEDGE shall enter the CC−state U10, "Call Active".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcC, TSPX_MTChRateC)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_32(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
6	body	L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
7		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			2.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To check whether the MS is in U10 state. if it is not in U10 fail in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_2

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", having waited for a reasonable length of time (eg. expiry of timer T313) without receiving the appropriate protocol message to complete the incoming call, shall initiate the clearing of that incoming call by sending the CC message DISCONNECT and enter the CC−state U11, "Disconnect Request"

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcD, TSPX_MTChRateD)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_32(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
6	body	+localtree1			
		localtree1			
7		START T_dly(15000)			
8		?TIMEOUT T_dly			
9		START T_dly(18000)			
10	L_0458	?TIMEOUT T_dly		(F)	
11		+PostMainLinkRel(TCV_chTch)			
12	L_0459	L?DL_DatInDisc CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))	(P)	2.
13		+CCstatuschk_05(C_U11, TI_02, TCV_chTch)			3.
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The expected DISCONNECT message received within the time interval with any valid cause location and cause value.
3. To check whether the MS is in the expected U11 state.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_3

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", upon request by the user to terminate will send a DISCONNECT message and enter the CC−state U11, "Disconnect Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcE, TSPX_MTChRateE)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_32(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
6	body	(TCV_Null := OO_TermCall())			2.
7	L_0460	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))	(P)	3.
8		+CCstatuschk_05(C_U11, TI_02, TCV_chTch)			4.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The user terminates the call.
3. The expected DISCONNECT message received.
4. To check whether the MS is in the expected U11 state.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_4

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", upon receipt of a DISCONNECT with progress indicator #8 enters CC−state U12, if the traffic channel is in speech mode, and that the MS sends a RELEASE message and enters CC−state U19 if the TCH is not in speech mode.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcF, TSPX_MTChRateF)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_03iei, UuInfo_omit))		
7		[TCV_ChMod.mode = C_ChMod_r]			2.
8		+CCstatuschk_05(C_U12, TI_02, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			
10		[TCV_ChMod.mode <> C_ChMod_r]			3.
11	L_0461	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	
12		+CCstatuschk_05(C_U19, TI_02, TCV_chTch)			
13		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. TCH is in speech mode.
3. TCH is not in speech mode.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_5

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", upon receipt of a DISCONNECT without progress indicator, returns a RELEASE message and enters the CC−state U19, "Release Request".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcG, TSPX_MTChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
7	L_0462	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	2.
8		+CCstatuschk_05(C_U19, TI_02, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The expected RELEASE message received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_6

Group : CC/

Purpose :
1) To verify that a CC entity of a MS in CC−state U8, "Connect Request", upon receipt of a RELEASE will return a RELEASE COMPLETE and enter the CC−state U0, "Null".
2) To verify that the MS on returning to the idle mode releases the MM−connection and that the CC−entities relating to the seven mobile terminating transaction identifiers are in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcH, TSPX_MTChRateH)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
6	body	L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TI_02))		
7	L_0463	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))	(P)	2.
8		+CheckTIsInStateU0(FALSE, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. The expected RELEASE COMPLETE message received.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_7

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", having detected a lower layer failure returns to idle mode with the CC entities relating to the seven mobile terminating transaction identifiers in CC−state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcI, TSPX_MTChRateI)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU8_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
5	body	(TCV_Null := OM_LowerLayerFail(TCV_ch))			3.
6		START T_dly(20000)			
7		?TIMEOUT T_dly			
8		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
9		+CheckTIsInStateU0(FALSE, TCV_ch)			
10		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected teleservice is telephony.
2. To setup a physical channel as BCCH, CCCH and SDCCH4.
3. To generate lower layer failure.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_8

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", when allocated a traffic channel by the network performing the assignment procedure, shall perform a layer 2 establishment on the FACCH without changing the state of the call in progress.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcJ, TSPX_MTChRateJ)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU8_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
6	body	+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			2.
7		+CCstatuschk_05(C_U8, TI_02, TCV_chTch)			3.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To assign a suitable traffic channel.
3.. To check whether the MS is still in the state U8.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_3_5_9

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U8, "Connect Request", having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMTorTelephony(TSPX_MTBscSvcG, TSPX_MTChRateG)			1.
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU8_31(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef)			
5	body	L!DL_DatRqUndefCC	UndefCC(TCV_ch, UndefCC_02(TI_02))		3.
6	L_0464	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_08(TI_01, C_U8))	(P)	4.
7		+CCstatuschk_05(C_U8, TI_02, TCV_ch)			5.
8		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To select a basic service. if the MS supports telephony the selected basic service is telephony.
2. To setup a physical channel as BCCH, CCCH and SDCCH4.
3. To send an unknown mesage to the MS.
4. The expected STATUS message with cause #97 and state U8 received.
5. To check whether the MS is still in the state U8.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_1_1

Group : CC/

Purpose :
1) To verify that an MS supporting the Mobile originating DTMF protocol control procedure, having a CC entity for speech in state U10, "Active": when made to send a DTMF tone, sends a START DTMF message on the correct DCCH.
2) To verify that an MS supporting the Mobile originating DTMF protocol control procedure, having a CC entity for speech in state U10, "Active": when made to send a DTMF tone (the corresponding IA5 character being selected from among the ones supported), sends a START DTMF message specifying the correct IA5 character in the "keypad information" field of the keypad facility information element.

Configuration :

Default : OtherEventsFail

Comments : The test is carried on full rate speech.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcE, TSPX_MTChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
6	body	[TSPC_BasCharSet]			3.
7		+localtree1("0")			
8		+localtree1("1")			
9		+localtree1("2")			
10		+localtree1("3")			
11		+localtree1("4")			
12		+localtree1("5")			
13		+localtree1("6")			
14		+localtree1("7")			
15		+localtree1("9")			
16		+continue			
17	L_0465	[NOT TSPC_BasCharSet]		I	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		continue			
18		+localtree1("#")			
19		+localtree1("*")			
20		[TSPC_AddCharSet]			4.
21		+localtree1("A")			
22		+localtree1("B")			
23		+localtree1("C")			
24		+localtree1("D")			
25		+localtree			
26		[NOT TSPC_AddCharSet]			
27		+localtree			5.
		localtree			
28		(TCV_Null := OO_ShortKeyDepr("0"))			
29		L?DL_DatInStartDtmf	StartDTMFRcv(StartDtmf_01(TI_01, "0"))		
30		L!DL_DatRqStartDtmfRej	StartDTMFRejSnd(TCV_chTch, StartDtmfRej_01(TI_02))		
31		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.
32		+PostMainLinkRel(TCV_chTch)			
		localtree1(character : IA5String)			
33		(TCV_Null := OO_ShortKeyDepr(character), TCV_Char := character)			
34		L?DL_DatInStartDtmf	StartDTMFRcv(StartDtmf_01(TI_01, TCV_Char))		
35		L!DL_DatRqStartDtmfAck	StartDTMFAckSnd(TCV_chTch, StartDtmfAck_01(TI_02, TCV_Char))		
36		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.
37		[TSPX_DTMFInd]			
38		(TCV_Res := OO_DTMFIndCHK(character))			
39	L_0466	[NOT TCV_Res]		(F)	7.
40		+PostMainLinkRel(TCV_chTch)			
41	L_0467	[TCV_Res]		(P)	8.
42		+localtree2			
43		[NOT TSPX_DTMFInd]			
44		+localtree2			
		localtree2			
45		L?DL_DatInStopDtmf	StopDTMFRcv(StopDtmf_01(TI_01))		
46		L!DL_DatRqStopDtmfAck	StopDTMFAckSnd(TCV_chTch, StopDtmfAck_01(TI_02))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
47		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.

Detailed Comments :
1. To setup 2 phsical channels one as BCCH, CCCH and SDCCH4, another as full rate traffic channel.
2. To bring the MS into the state U10 for speech.
3. To check the character set of "0−9, #, *".
4. To check the character set of "A, B, C, D" if it is supported by the MS.
5. To test the DTMF tone being rejected.
6. To verify that the MS is still in the state U10.
7. The DTMF indication is not correct.
8. The DTMF indication is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_2_1

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U10, "active", upon receiving of a NOTIFY message remains in the active state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			2.
6	body	L!DL_DatRqNotify	NotifySnd(TCV_chTch, NotifiReq_01(TI_02))		3.
7		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			4.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup 2 phsical channels one as BCCH, CCCH and SDCCH4, another as full rate traffic channel.
2. To bring the MS into the state U10 for speech by generic call setup procedure.
3. To send the NOTIFY message to the MS.
4. To verify whether the MS is still in the state U10, the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_3_1

Group : CC/

Purpose : To verify that the MS being in the call active state after having successful completed a channel assignment or having completed a handover command remains in the call active state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcC, TSPX_MTChRateC)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
6		(TCV_slt2:= INT_TO_BIT((BIT_TO_INT(TSPX_TmSltDef) + BIT_TO_INT(TSPX_TmSltNotZero))MOD 8,3))			Make TCV_slt2 different from TSPX_TmSltDef
7		[TCV_ChRate = C_Full]			
8		+FullRateCh_A_2(C_Synho, TCV_slt2, TSPX_TscDef, TCV_ChMod, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			2.
9		+localtree			
10		[TCV_ChRate = C_Half]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		+HalfRateCh_A_2(TSPX_TCHHSubDef, C_Synho, TCV_slt2, TSPX_TscDef, TCV_ChMod, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			3.
12		+localtree			
		localtree			
13		(TCV_Tchtype := TCV_chtype)			
14		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			4.
15		(TCV_ch := TCV_chTch)			
16		+AssCmdGen(C_CellA, TCV_ChRate, TCV_slt2, TSPX_TscDef, TSPX_TCHHSubA)			
17	body	+Adjust_gsmanddcs_powerlvl(7, 3)			
18		+AssCh_complete(TCV_ch, TCV_chTch1, TCV_AssCmd)			5.
19		+CCstatuschk_05(C_U10, TI_02, TCV_chTch1)			7.
20		(TCV_Null:=OM_FreeResource(TCV_chTch),TCV_slt2:= INT_TO_BIT((BIT_TO_INT(TSPX_TmSltDef) + BIT_TO_INT(TSPX_TmSltNotZero1))MOD 8,3))			Use another timeslot different from previous two
21		+CCConfigTCH(TSPX_TCHHSubA, C_Synho, TCV_slt2, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
22		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch1, HandOverCmd_nfh(TCV_Tchtype, TCV_slt2, TSPX_TscDef, C_NCC, C_BCC, TCV_chdescr_arfcn, TCV_tch_arfcn, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
23		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_02(TSPX_HoRefA))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_02(TSPX_HoRefA))		
25		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_02(TSPX_HoRefA))		
26		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_02(TSPX_HoRefA))		
27		L?DL_EstIn	DLEstInd(TCV_chTch)		
28	L_0468	L?DL_DatInHoCom	HndOvCmpRcv(TCV_chTch, HandOverCmp_01)	(P)	6.
29		L!MDL_RelRq	MDLRelReq(TCV_chTch1)		Release the original channel
30		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			7.
31		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup a physical channels as full rate traffic channel or half traffic channel.
2. To setup a physical channel as second full rate traffic channel.
3. To setup a physical channel as the second half rate traffic channel.
4. To bring the MS into U10 state by MT call generic setup procedure.
5. The assignment procedure succeeds.
6. The handover procedure succeeds.
7. To check whether the MS is still in the state U10.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_3_2

Group : CC/

Purpose : To verify that the MS, when returning to the old channel after handover failure and establishing correctly the link, will remain in the call active state.

Configuration :

Default : OtherEventsFail_01, RcvHdOvAcc

Comments : bearer capability TSPX_BCd is used in the test case. The generic MT call setup procedure is used.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcD, TSPX_MTChRateD)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+StartCellB_1(C_E_neighbourdefault, C_Rcv,TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, C_noRestablishment, C_BCC, C_NCC)			1.
7		(TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellB), TCV_Null := OM_CphMd(TCV_ch1, CphMod_01, TCV_CphKey))			
8		+localtree			
		localtree			
9		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			
10	body	+handover			
11		ACTIVATE(RcvHdOvAcc, OtherEventsFail_01)			
12		REPEAT local_hobursts UNTIL [TCV_Res]			
13		L?DL_EstIn	DLEstInd(TCV_chTch)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14	L_0469	L?DL_DatInHofl	HndOvFlRcv(TCV_chTch, HandOvFail_01)	(P)	2.
15		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			3.
16		+AssCmdGen_fh(C_Full, TCV_slot, TCV_tsc, TSPX_TCHHSubDef, 7, 7, ’000000’B, ’000000’B, Frql_02, Frql_02, CellChDes_12, CellChDes_12d, ChMod_sign_iei, MoblAllc_02, MoblAllc_02, CphMod_omit)			
17		+AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)			4.
18		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			3.
19		+PostMainLinkRel(TCV_chTch)			
		handover			
20		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5), TCV_Res := FALSE)			
21		[TSPC_PGSM OR TSPC_EGSM]			
22		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnB, C_arfcnB, TSPX_HoRefB, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_sign_iei, RelTmdDif_omit, TimingAdv_omit, CphMod_02iei))		Non−sync HO
23		START T_dly(C_T_T3124)			
24		[TSPC_DCS]			
25		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TCV_slot, TCV_tsc, C_NCC, C_BCC, C_arfcnBd, C_arfcnBd, TSPX_HoRefB, TCV_Pwrlvl_ho, Synchi(C_report_otd, C_non_synchronised), ChMod_sign_iei, RelTmdDif_omit, TimingAdv_omit, CphMod_02iei))		Non−sync HO
26		START T_dly(C_T_T3124)			
		local_hobursts			
27		L?DL_RacInHoacc	HndOvAccRcv(TCV_ch1, HandOverAcc_02(TSPX_HoRefB))		
28		?TIMEOUT			
29		(TCV_Res := TRUE)			

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Test Case Dynamic Behaviour	
Detailed Comments :	1. To setup a physical channel as BCCH, CCCH and SDCCH4 used as cell B. 2. The expected HANDOVER FAILURE message received on the old channel. 3. To check whether the MS is still in the state U10, if no test case fails in the test step. 4. The expected ASSIGNMENT FAILURE message received on the old channel.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_4_1

Group : CC/

Purpose : 1) To verify that an MS supporting the network originated in−call modification procedure, after having received a MODIFY message with a new mode which is not the actual one and cannot be supported by the MS, rejects it by sending a MODIFY REJECT.
2) To verify that an MS not supporting the network originated in−call modification procedure, after having received a MODIFY message, responds with a STATUS message.

Configuration :

Default : OtherEventsFail

Comments : The generic MT call setup procedure is used to bring the MS into U10 state.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2	L_0470	[(TSPX_MT_DualModSvc <> C_AltSpchData) OR (TSPX_MT_DualModSvc <> C_SpchData) OR (TSPX_MT_DualModSvc <> C_AltSpchFax)]		I	not dual mode service
3		[(TSPX_MT_DualModSvc = C_AltSpchData) OR (TSPX_MT_DualModSvc = C_SpchData) OR (TSPX_MT_DualModSvc = C_AltSpchFax)]			
4		+BasicServiceMT(TSPX_MT_DualModSvc, C_Full)			
5		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
6		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
7		+PreEnterCCstateU10(TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		(TCV_B := TCV_Setup_mt.bcap2, TCV_Bcap2 := Bcap_NoIEI(TCV_B.iel,TCV_B.extb3,TCV_B.rchr,TCV_B.cs,TCV_B.tm,TCV_B.itc,TCV_B.extb4,TCV_B.spb,TCV_B.strc,TCV_B.dplxm,TCV_B.config,TCV_B.nirr,TCV_B.est,TCV_B.extb5,TCV_B.accid,TCV_B.ra,TCV_B.sacp,TCV_B.extb6,TCV_B.l1id,TCV_B.uil1,TCV_B.sb,TCV_B.extb6a,TCV_B.nsb,TCV_B.nb,TCV_B.ndb,TCV_B.ur,TCV_B.extb6b,TCV_B.ir,TCV_B.nictx,TCV_B.nicrx,TCV_B.pi,TCV_B.extb6c,TCV_B.ce,TCV_B.modemt))			
9		(TCV_B := TCV_Setup_mt.bcap1, TCV_Bcap1 := Bcap_NoIEI(TCV_B.iel,TCV_B.extb3,TCV_B.rchr,TCV_B.cs,TCV_B.tm,TCV_B.itc,TCV_B.extb4,TCV_B.spb,TCV_B.strc,TCV_B.dplxm,TCV_B.config,TCV_B.nirr,TCV_B.est,TCV_B.extb5,TCV_B.accid,TCV_B.ra,TCV_B.sacp,TCV_B.extb6,TCV_B.l1id,TCV_B.uil1,TCV_B.sb,TCV_B.extb6a,TCV_B.nsb,TCV_B.nb,TCV_B.ndb,TCV_B.ur,TCV_B.extb6b,TCV_B.ir,TCV_B.nictx,TCV_B.nicrx,TCV_B.pi,TCV_B.extb6c,TCV_B.ce,TCV_B.modemt))			
10		L!DL_DatRqModify	ModifySnd(TCV_chTch, ModifyReq_01(TI_02, Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Synchronous, TSPX_TE_stopbit, TSPX_TE_databit, C_4800bs, C_ir_8kbs, TSPX_TE_parity, C_transparent, C_modemt_none)))		
11		[TSPC_InCallMod]			1.
12	L_0471	L?DL_DatInModifyRej	ModifyRejRcv(TCV_chTch, ModifyRj_01(TI_01, TCV_Setup_mt.bcap1))	(P)	
13		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			
14		+PostMainLinkRel(TCV_chTch)			
15		[NOT TSPC_InCallMod]			2.
16	L_0472	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TI_01, C_U10))	(P)	
17		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			
18		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. The In−Call modification procedure is supported.
2. The In−Call modification procedure is not supported.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_1

Group : CC/

Purpose :
1) To verify that the procedure is initiated by the MS in the "active" state of the call. It sends a MODIFY message including the new mode to be changed to; and enters the "mobile originating modify" state. The new mode given in the MODIFY message is one of those already negotiated and agreed during the establishment phase of the call. The MODIFY originating side stops sending Bm−channel information.
2) To verify that upon receipt of the MODIFY COMPLETE message the MS starts sending channel information according to the new call mode and enters the "active" state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			
7		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_07(TCV_chtype, TCV_ChModb.mode, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn))		
8	L_0473	L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_08(TCV_chtype, TCV_ChModb.mode, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn))	(P)	2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		(TCV_Res := OC_RcsdPresent(TCV_Modify))			
10		[TCV_Res]			
11		L!DL_DatRqModifyCom	ModifyCmpSnd(TCV_chTch, ModifyComp_02(TCV_TI, TCV_Bcap2))		
12		+local_continue			
13		[NOT TCV_Res]			
14		L!DL_DatRqModifyCom	ModifyCmpSnd(TCV_chTch, ModifyComp_03(TCV_TI, TCV_Bcap2))		
15		+local_continue			
		local_continue			
16		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChModb))			
17		START T_dly(2000)			
18		?TIMEOUT T_dly			
19		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			
20		(TCV_Res := OM_BmInfo(TCV_chTch, TCV_ChModb.mode))			
21	L_0474	[TCV_Res]		(P)	3.
22		+PostMainLinkRel(TCV_chTch)			
23	L_0475	[NOT TCV_Res]		(F)	
24		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To attempt a dual mode call and initiate incall modification.
2. The expected CMM ACKNOWLEDGE message received.
3. The MS does start sending Bm channel information according to the new mode.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_2

Group : CC/

Purpose : To verify that upon receipt of the MODIFY REJECT message with the old bearer capability the MS resumes sending Bm−channel information according to the present call mode; resumes interpreting received Bm−channel information according to the present call mode; and enters the "active" state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqModifyRej	ModifyRejRqSnd(TCV_chTch, ModifyRjRq_01(TCV_TI, TCV_Bcap1))		
7		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)			2.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To attempt a dual mode call and initiate incall modification.
2. To check whether the MS is still in the state U10 and the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_3

Group : CC/

Purpose : To verify that upon receipt of the MODIFY COMPLETE message indicating a call mode which does not correspond to the requested one the MS discards it and takes no action.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqModifyCom	ModifyCmpSnd(TCV_chTch, ModifyComp_03(TCV_TI, TCV_Bcap2))		2.
7		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			3.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To attempt a dual mode call.
2. The mode (TCV_Bcap1) does not correspond to the requested one (TCV_Bcap2).
3. To check whether the MS does not take any action and the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_4

Group : CC/

Purpose : To verify that upon receipt of the MODIFY REJECT message indicating a call mode which does not correspond to the actual one the MS discards it and takes no action.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqModifyRej	ModifyRejRqSnd(TCV_chTch, ModifyRjRq_01(TCV_TI, TCV_Bcap1))		2.
7		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			3.
8		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To attempt a dual mode call.
2. The mode (TCV_Bcap1) does not correspond to the actual one (TCV_Bcap2).
3. To check whether the MS does not take any action and the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_5

Group : CC/

Purpose : To verify that upon expiration of T323 the MS shall initiate the procedures for call clearing with cause #102 "recovery on timer expiry".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6		START T_dly(45000)			
7	body	L?DL_DatInDisc (TCV_Fn1 := DL_DatInDisc.fn) READTIMER T_dly (TCV_Time), CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_14))		2.
8	L_0476	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	3.
9		+PostMainLinkRel(TCV_chTch)			
10	L_0477	[(TCV_Time >= 27000) AND (TCV_Time < 33000)]		(P)	4.
11		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To attempt a dual mode call.
2. The expected DISCONNECT message received.
3. Fail, if the T323 timer value is either greater than or equal to 33 seconds, or less than 27 seconds.
4. Pass, if the timeout value of the T323 timer is OK.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_6

Group : CC/

Purpose : 1. To verify that a CC−entity of the MS in CC−state U26, "Mobile Originating Modify", after successful completion of a channel assignment procedure remains in the call state U26.
2. To verify that upon receipt of the MODIFY COMPLETE message the MS starte sending channel information according to the new call mode and enters the "active" state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+local_2ndTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TCV_ChModb, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
6		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
7		+local_continue			
		local_continue			
8		+assign			
9		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			2.
10		(TCV_Res := OC_RcsdPresent(TCV_Modify))			
11		[TCV_Res]			
12		L!DL_DatRqModifyCom (DL_DatRqModifyCom.msg.rcsd := TCV_Modify.rcsd)	ModifyCmpSnd(TCV_chTch, ModifyComp_02(TCV_TI, TCV_Bcap2))		
13		+localtree1			
14		[NOT TCV_Res]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_DatRqModifyCom	ModifyCmpSnd(TCV_chTch, ModifyComp_03(TCV_TI, TCV_Bcap2))		
16		+localtree1			
		localtree1			
17		+CCstatuschk_05(C_U10, TCV_TI, TCV_chTch1)			3.
18		+PostMainLinkRel(TCV_chTch1)			
		assign			
19		[TSPC_PGSM OR TSPC_EGSM]			
20		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, TCV_slt2, TSPX_TscDef, 7, C_arfcn_tchA, CellChDes_Omit, TCV_ChModb, StartingTm_omit, CphMod_omit))			
21		+AssCh_complete(TCV_chTch, TCV_chTch1, TCV_AssCmd)			
22		[TSPC_DCS]			
23		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, TCV_slt2, TSPX_TscDef, 3, C_arfcn_tchAd, CellChDes_Omit, TCV_ChModb, StartingTm_omit, CphMod_omit))			
24		+AssCh_complete(TCV_chTch, TCV_chTch1, TCV_AssCmd)			
		local_2ndTCH(sub : BITSTRING; acttype : BITSTRING; slot : SN; tsc : TSC; chmod : CHMOD; arfcng, arfcnd: INTEGER; ta : TA; babr, cch_con, bpm : B_3)			
25		(TCV_slt2 := INT_TO_BIT(((1+ BIT_TO_INT(slot))MOD 8),3))			
26		[TCV_ChRate = C_Full]			
27		+FullRateCh_A_2(acttype, TCV_slt2, tsc, chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
28		[TCV_ChRate = C_Half]			
29		+HalfRateCh_A_2(sub, acttype, TCV_slt2, tsc, chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr, cch_con, bpm)			

Detailed Comments : 1. To attempt a dual mode call.
2. To check whether the MS is still in the state U26.
3. T0 check whether the MS is now in the state U10 and the verdict is assigned in the test step.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_7

Group : CC/

Purpose : To verify that a CC−entity of the MS in CC−state U26, "Mobile Originating Modify", when returning to the old channel after handover failure and having established the link, remains in the call state U26.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		(TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
7	body	+FullRateCh_A_2(C_Rcv, TSPX_TmSltC, TSPX_TscC, ChMod_speech, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			2.
8		+local_sendHoCMD			
9		(TCV_Cnt := 0)			
10		REPEAT local_Hoacc UNTIL [TCV_Cnt = 4]			
11	L_0478	L?DL_DatInHofl	HndOvFlRcv(TCV_chTch, HandOvFail_01)	(P)	5.
12		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			6.
13		+PostMainLinkRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_Hoacc			
14		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch1, HandOverAcc_02(TSPX_HoRefA))		4.
15		(TCV_Cnt := TCV_Cnt +1)			
		local_sendHoCMD			
16		(TCV_Tchtype := '00001'B)			
17		[TSPC_PGSM OR TSPC_EGSM]			
18		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnA, C_arfcn_tchA, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		3.
19		[TSPC_DCS]			
20		L!DL_DatRqHoCmd	HndOvSnd(TCV_chTch, HandOverCmd_nfh(TCV_Tchtype, TSPX_TmSltC, TSPX_TscC, C_NCC, C_BCC, C_arfcnAd, C_arfcn_tchAd, TSPX_HoRefA, TCV_Pwrlvl_ho, Synchi(C_not_report_otd, C_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		3.

Detailed Comments :
1. To attempt a dual mode call.
2. To setup a receiving only TCH/F for handover.
3. To handover to the channel which does not respond.
4. To check that the MS sends HANDOVER ACCESS messages on the new channel.
5. The expected HANDOVER FAILURE message received.
6. To check whether the MS is still in the state U26.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_8

Group : CC/

Purpose : To verify that a CC entity of a MS in CC−state U26, "Mobile Originating Modify", having received an unknown message from its peer entity returns a STATUS message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqUndefCC	UndefCC(TCV_chTch, UndefCC_02(TCV_TI))		2.
7	L_0479	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_08(TCV_TI0, C_U26))	(P)	3.
8		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			4.
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To attempt a dual mode call.
2. To send a message which message type is not defined for CC.
3. Received expected CC STATUS message with state U26.
4. To check whether the MS is still in the state U26 and assign the verdict.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_1_4_5_9

Group : CC/

Purpose : 1) To verify that a CC entity of a MS in CC−state U26, "Mobile Originating Modify", upon receipt of a RELEASE COMPLETE message with valid cause value, shall enter CC state U0, "Null".

2)To verify that on returning to idle mode, the CC entities relating to the seven mobile originating transcation identifiers shall be in state U0, "Null".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MO_DualModSvc, TSPX_MO_DualModRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreModifySetup(TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TSPX_CKSNDef, TSPX_RANDDef)			1.
6	body	+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			
7		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		2.
8		+CheckTIsInStateU0(TRUE, TCV_chTch)			
9		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To attempt a dual mode call and initiate incall modification.
2. To send RELEASE COMPLETE message.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_2_1

Group : CC/

Purpose : The purpose of this test is to verify that the MS can correctly perform a call re−establishment procedure.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys0, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		(TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellB))			
5		+StartCellB_1(C_E_neighbourdefault, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, C_Restablishment, C_BCC, C_NCC)			
6		+CCConfigTCH_B(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltC, TSPX_TscC, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchB, C_arfcn_tchBd)			
7		(TCV_chTch1 := TCV_chTch)			
8		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
9		+ltree			
		ltree			
10		+InitCall(TCV_Service)			
11		+CCEstablishMO_SDCCH4(TSPX_SDCCH4SubDef, TimingAdv(0))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
13		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
14		ACTIVATE(OtherEventsFail)			Restore Normal default
15		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
16		+Ciphering_on(TCV_ch)			
17		+localtree			
		localtree			
18		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
19		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
20		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
21		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
22		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
23		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
24		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
25		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
26	body	(TCV_Null := OM_ChangeRFOf2Cells(C_CellB, C_E_default, C_CellA, C_E_suitable))			Cell A still exists.
27		START T_dly(C_T_Wait)			
28		?TIMEOUT T_dly			
29		+localtree1			
		localtree1			
30		(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
31	L_0480	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_10)	(P)	1.
32		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		L!DL_UdatRqImmass	ImmAss(C_AGCH_B_1, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
34		L?DL_EstInCmreRq	CmreReq_02(MiTmsi_01, LocAreaIdiei(C_MCC_1, C_PLMN_1, C_LAC_1), TSPX_CKSNDef)		
35		ACTIVATE(OtherEventsFail)			Restore Normal default
36		+Ciphering_on(TCV_ch1)			
37		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltC, TSPX_TscC, TSPX_TCHHSubDef)			
38		+AssCh_complete(TCV_ch1, TCV_chTch1, TCV_AssCmd)			
39		(TCV_Res := OO_TCHThroConnCHK())			
40	L_0481	[NOT TCV_Res]		(F)	2.
41		+PostMainLinkRel(TCV_chTch1)			
42	L_0482	[TCV_Res]		(P)	
43		L!DL_DatRqDisc	DiscSnd(TCV_chTch1, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
44		L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		
45		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch1, ReleaseCmp_08(TCV_TI))		
46		+PostMainLinkRel(TCV_chTch1)			

Detailed Comments : 1. The expected call re−establishment is started.
2. The bearer channel is not through connected, fail.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_2_2

Group : CC/

Purpose : The purpose of this test is to verify that the MS does not attempt call re−establishment when it is not allowed to take place because of the unavailability of a cell allowing call re−establishment.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+CCEstablishMO_SDCCH4(TSPX_SDCCH4SubDef, TimingAdv(0))			
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
11		+Ciphering_on(TCV_ch)			
12		+localtree			
		localtree			
13		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
14		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
16		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
17		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
18		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
19		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
20		(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
21		START T_dly(30000)			
22	L_0483	L?DL_RacInChRq CANCEL T_dly	ChReq(ChRequest_02)	F	2.
23	L_0484	?TIMEOUT T_dly		P	3.

Detailed Comments : 1. Default parameters, call reestablishment not allowed.
2. Re−establishment is attempted, fail.
3. No re−establishment attempting, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_2_3

Group : CC/

Purpose : The purpose of this test is to verify that the MS does not attempt call re−establishment when it is not allowed to take place because of the call control state.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		+CCEstablishMO_SDCCH4(TSPX_SDCCH4SubDef, TimingAdv(0))			
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
11		+Ciphering_on(TCV_ch)			
12		+localtree			
		localtree			
13		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
14		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
16		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
17		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
18	body	(TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
19		START T_dly(30000)			
20	L_0485	L?DL_RacInChRq CANCEL T_dly	ChReq(ChRequest_02)	F	2.
21	L_0486	?TIMEOUT T_dly		P	3.

Detailed Comments : 1. Default parameters, reestablishment allowed.
2. Re−establishment is attempted, fail.
3. No re−establishment attempting, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_26_8_3

Group : CC/

Purpose : To verify that inclusion of the 'user−user' information element in a either of the down link messages, SETUP or DISCONNECT causes no adverse effects on the operation of the MS.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcF, TSPX_MTChRateF)			
3		(TCV_Setup_mt.uu := UuInfo, TCV_Setup_mt.sig := Signal_01)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+CCEstablishMT_SDCCH4(TimingAdv(0), TSPX_SDCCH4SubDef, TSPX_CKSNDef)			
7		+Authentication(TCV_ch, TSPX_CKSNDef, TSPX_RANDDef)			
8		+Ciphering_on(TCV_ch)			
9	body	L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
10	L_0487	L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))	(P)	1.
11		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
12		+localtree			
13		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
14		(TCV_Null := OO_HookOff())			
15		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
16		+localtree			
		localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		+CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)			
18		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
19		START T_dly(30000)			
20		?TIMEOUT T_dly			
21		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo))		
22	L_0488	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	2.
23		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
24		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. The MS responds to the SETUP message with user−user information IE correctly.
2. The MS responds to the DISCONNECT message with user−user information IE correctly.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_2

Group : StructureProc/

Purpose : 1) To verify that the MS in MM state "idle, updated" with a TMSI assigned, when made to initiate a call for a selected teleservice that is supported by the MS as declared in a PICS/PIXIT statement, displays the dialled number in the way described in a PICS/PIXIT statement.

2) To verify that the MS in MM state "idle, updated" and in RR idle mode, with a TMSI assigned, when made to initiate a call for a selected teleservice that is supported by the MS as declared in a PICS/PIXIT statement, starts to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message with correct establishment cause.

3) To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after having successfully performed the authentication and cipher mode setting procedures, the MS sends a SETUP message with correct parameters.

4) To verify that subsequently, after receipt of a CALL PROCEEDING message and of an ASSIGNMENT COMMAND message allocating an appropriate TCH, after having completed the traffic channel early assignment procedure by replying with the ASSIGNMENT COMPLETE message, after receipt of an ALERTING message and a CONNECT message, the MS returns a CONNECT ACKNOWLEDGE message.

5) To verify that subsequently the MS has attached the user connection to the radio path. (This is checked by verifying that there is a point in time after transmission of the first L2 frame containing the (complete) CONNECT message, where the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

6) To verify that subsequently upon the network initiating call clearing by sending a DISCONNECT message, the MS proceed to release the call with RELEASE.

7) To verify that subsequently, on receipt of a RELEASE COMPLETE message followed by a CHANNEL RELEASE message, the MS disconnects the main signalling link.

These test purposes are tested for all rates supported by the MS (full rate/half rate).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2	body	[TSPC_Serv_TS11]			
3		+BasicServiceMO(C_Telephony, C_Full)			
4		+local_testfullrate			1.
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate]			
7		+BasicServiceMO(C_Telephony, C_Half)			
8		+local_testhalfrate			2.
9		[NOT TSPC_DualRate]			
10		[TSPC_Serv_TS62]			TS62
11		+BasicServiceMO(C_AutoFax, C_Full)			
12		+local_testfullrate			3.
13	L_0489	[C_Yes]		I	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_testfullrate			
14		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
15		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
16		+local_initcall			
		local_testhalfrate			
17		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			7.
18		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))			
19		+local_initcall			
		local_initcall			
20		(TCV_Null := OO_DialCalledNum())			4.
21		[TSPC_CalledNumDisp]			
22		(TCV_Res := OO_CalledNumCHK())			5.
23		+Check_Result			
24		+InitCall(TCV_Service)			6.
25		+localtree			
26		[NOT TSPC_CalledNumDisp]			
27		+InitCall(TCV_Service)			
28		+localtree			
		localtree			
29	L_0492	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
30		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
32		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
33		ACTIVATE(OtherEventsFail)			Restore Normal default
34		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
35		L?DL_DatInAuthRes(TCV_Sres:=DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
36		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
37		+Check_Result			
38		+localtree1			
		localtree1			
39		+Ciphering_on(TCV_ch)			
40		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
41	L_0495	L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)	(P)	
42		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
43		+AssCh_complete(TCV_ch,TCV_chTch,TCV_AssCmd)			8.
44		+localtree2			
		localtree2			
45		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
46		[TSPC_AlertInd]			
47		(TCV_Res := OO_AltIndCHK())			
48		+Check_Result			
49		+localtree3			
50		[NOT TSPC_AlertInd]			
51		+localtree3			
		localtree3			
52		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
53	L_0497	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
54		(TCV_Res := OO_TCHThroConnCHK())			
55		+Check_Result			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
56		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
57	L_0500	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
58		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
59		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To perform the test on full rate telephony service.
2. To perform the test on half rate telephony.
3. To perform the test on TS62 service.
4. To enter the called party number.
5. To check whether the MS displays the called party number correctly.
6. To initiate the call.
7. To setup the previous full rate traffic channel into half rate traffic channel.
8. Early assignment.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_3

Group : StructureProc/

Purpose : 1) To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, when made to initiate a call for a selected teleservice that is supported by the MS as declared in a PICS/PIXIT statement, starts to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message.

2) To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after having successfully performed authentication and cipher mode setting procedures, after having sent a SETUP message, after having received a CALL PROCEEDING message followed by an ALERTING message and an ASSIGNMENT COMMAND message allocating an appropriate TCH, the MS sends an ASSIGNMENT COMPLETE message.

3) To verify that subsequently, after the suite of actions specified in test purposes 1 and 2, the MS after receiving a CONNECT message returns a CONNECT ACKNOWLEDGE message.

4) To verify that after the suite of actions specified in test purposes 1 and 2, the MS after receiving a CONNECT message attaches the user connection to the radio path. (This is checked by verifying that there is a point in time after transmission of the first L2 frame containing the (complete) CONNECT message, where the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

These test purposes are tested for all rates supported by the MS (full rate/half rate).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2	body	[TSPC_Serv_TS11]			
3		+BasicServiceMO(C_Telephony, C_Full)			
4		+local_testfullrate			1.
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate]			
7		+BasicServiceMO(C_Telephony, C_Half)			
8		+local_testhalfrate			2.
9		[NOT TSPC_DualRate]			
10		[TSPC_Serv_TS62]			TS62
11		+BasicServiceMO(C_AutoFax, C_Full)			
12		+local_testfullrate			3.
13	L_0501	[C_Yes]		I	
		local_testfullrate			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
15		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
16		+local_initcall			
		local_testhalfrate			
17		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			7.
18		+local_initcall			
		local_initcall			
19		(TCV_Null := OO_DialCalledNum())			4.
20		[TSPC_CalledNumDisp]			
21		(TCV_Res := OO_CalledNumCHK())			5.
22		+Check_Result			
23		+InitCall(TCV_Service)			6.
24		+localtree			
25		[NOT TSPC_CalledNumDisp]			
26		+InitCall(TCV_Service)			
27		+localtree			
		localtree			
28	L_0504	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
29		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
30		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
32		ACTIVATE(OtherEventsFail)			Restore Normal default
33		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
34		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
35		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
36		+Check_Result			
37		+localtree1			
		localtree1			
38		+Ciphering_on(TCV_ch)			
39		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
40	L_0506	L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)	(P)	
41		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
42		[TSPC_AlertInd]			
43		(TCV_Res := OO_AltIndCHK())			
44	L_0507	[NOT TCV_Res]		(F)	
45		+localtree2			
46		[TCV_Res]			
47		+localtree2			
48		[NOT TSPC_AlertInd]			
49		+localtree2			
		localtree2			
50		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
51		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
52		+localtree3			
		localtree3			
53		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
54	L_0508	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
55		(TCV_Res := OO_TCHThroConnCHK())			
56		+Check_Result			
57		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
58	L_0511	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
59		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
60		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To perform the test on full rate telephony service.
2. To perform the test on half rate telephony.
3. To perform the test on TS62 service.
4. To enter the called party number.
5. To check whether the MS displays the called party number correctly.
6. To initiate the call.
7. To setup the previous full rate traffic channel into half rate traffic channel.
8. Later assignment

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_4

Group : StructureProc/

Purpose : 1) To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, after being paged by the network on the correct paging subchannel, after initiating the immediate assignment procedure by sending the CHANNEL REQUEST message, after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after having sent a PAGING RESPONSE message on the allocated SDCCH, after having performed successful authentication and cipher mode setting procedures, after receipt of a SETUP message not containing a signal information element, returns a CALL CONFIRMED message.

2) To verify that subsequently, the SS sending an ASSIGNMENT COMMAND message, the MS successfully continues a mobile terminating call establishment with early assignment of traffic channel

a) by replying to the ASSIGNMENT COMMAND with an ASSIGNMENT COMPLETE message, and

b) by continuing the call establishment by either sending a CONNECT message and through connecting the TCH in both directions, or, sending an ALERTING message.

3) To verify that if after sending a CALL PROCEEDING message, the MS sends an ALERTING message during MTC establishment with early assignment, it generates an alerting indication.

4) To verify that if an ALERTING had been sent, subsequently, when the user accepts the call (possibly internal action as declared in PICS/PIXIT statement), the MS returns a CONNECT message.

5) To verify that the MS:
− if the call is a speech call: after sending the CONNECT message has through connected the TCH in both directions (this is checked by verifying that after transmission of the first L2 frame containing the (complete) CONNECT message, the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

− if the call is a data call: after receipt of a subsequent CONNECT ACKNOWLEDGE message through connects the TCH in both directions (this is checked by verifying that there is a point in time after transmission of the first L2 frame containing the (complete) CONNECT ACKNOWLEDGE message, where the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

6) To verify that subsequently, the MS can initiate call clearing by sending a DISCONNECT message.

7) To verify that the MS in this phase of call release, upon receipt of a RELEASE message, returns a RELEASE COMPLETE message.

8) To verify that subsequently the MS, upon receipt of a CHANNEL RELEASE message, disconnects the main signalling link.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2	body	[TSPC_Serv_TS11]			
3		+BasicServiceMT(C_Telephony, C_Full)			
4		+local_testfullrate			1.
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate]			
7		+BasicServiceMT(C_Telephony, C_Half)			
8		+local_testhalfrate			2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		[NOT TSPC_DualRate]			
10		[TSPC_Serv_TS62]			TS62
11		+BasicServiceMT(C_AutoFax, C_Full)			
12		+local_testfullrate			3.
13	L_0512	[C_Yes]		I	
		local_testfullrate			
14		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
15		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
16		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))			
17		+localtree(C_Full)			
		local_testhalfrate			
18		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			4.
19		+localtree(C_Half)			
		localtree(rate : IA5String)			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_EstInPgRes	PagingRes(PagingRes_03(TSPX_CKSNA))		
25		ACTIVATE(OtherEventsFail)			Restore Normal default
26		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
27		L?DL_DatInAuthRes(TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
28		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
29	L_0513	[NOT TCV_Res]		(F)	
30		+PostMainLinkRel(TCV_ch)			
31	L_0514	[TCV_Res]		(P)	5.
32		+localtree1(rate)			
		localtree1(rate : IA5String)			
33		+Ciphering_on(TCV_ch)			
34		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		6.
35		L?DL_DatInCallCo(TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
36		[TSPX_Immconn]			
37		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
38		+asstrafficch(rate)			7.
39		+localtree3			
40		[NOT TSPX_Immconn]			
41		+asstrafficch(rate)			7.
42		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
43		(TCV_Res := OO_AltIndCHK())			
44		+Check_Result			
45		(TCV_Null := OO_HookOff())			9.
46		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
47		+localtree3			
		localtree3			
48		[TCV_Setup_mt.bcap1.itc = ’000’B]			Speech Call
49		(TCV_Res := OO_TCHThroConnCHK())			
50		+Check_Result			
51		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
52		+localtree5			
53		[TCV_Setup_mt.bcap1.itc <> ’000’B]			Data Call

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
54		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
55		(TCV_Res := OO_TCHThroConnCHK())			
56		+Check_Result			
57		+localtree5			
		localtree5			
58		(TCV_Null := OO_TermCall())			
59		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))		
60		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TI_02))		
61		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
62		+PostMainLinkRel(TCV_chTch)			
		asstrafficch(rate : IA5String)			
63		(TCV_Res := FALSE)			
64		+AssCmdGen(TCV_cellid, rate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
65		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

Detailed Comments :
1. To perform the test on full rate telephony service.
2. To perform the test on half rate telephony.
3. To perform the test on TS62 service.
4. To setup the previous full rate channel into half rate channel.
5. Authentication is OK.
6. SETUP message withourt signal IE.
7. Early assignment.
8. Alerting indication not correct.
9. To accept the call at the MS.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_5

Group : StructureProc/

Purpose : 1) To verify that the MS in "Idle, Updated" state with a TMSI assigned, after being paged by the network on the correct paging subchannel, after initiating the immediate assignment procedure by sending the CHANNEL
REQUEST message, after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after having established the main signalling link, after having sent a PAGING RESPONSE message, after having performed successful authentication and cipher mode setting procedures, after receipt of a SETUP message containing a signal information element, returns a CALL CONFIRMED message followed by

− an ALERTING message

− or a CONNECT message.

2) To verify that in the situation of test purpose 1, if the MS sends an ALERTING message, the MS generates an alerting indication in the way described in a PICS/PIXIT statement.

3) To verify that subsequently the MS, if it had not yet sent a CONNECT message, upon acceptance of the call, sends a CONNECT message.

4) To verify that subsequently after receipt of an ASSIGNMENT COMMAND, the MS sends an ASSIGNMENT COMPLETE message.

5) To verify that subsequently the MS

− if the call is a speech call: after sending the ASSIGNMENT COMPLETE message has through connected the TCH in both directions (this is checked by verifying that after transmission of the first L2 frame containing the (complete) ASSIGNMENT COMPLETE message, the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

− if the call is a data call: after receipt of a subsequent CONNECT ACKNOWLEDGE message through connects the TCH in both directions (this is checked by verifying that there is a point in time after transmission of the first L2 frame containing the (complete) CONNECT ACKNOWLEDGE message, where the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

These test purposes are tested for all rates supported by the MS (full rate/half rate).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2	body	[TSPC_Serv_TS11]			
3		+BasicServiceMT(C_Telephony, C_Full)			
4		+local_testfullrate			1.
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey), TCV_Null := OM_CphMd (TCV_chTch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate]			
7		+BasicServiceMT(C_Telephony, C_Half)			
8		+local_testhalfrate			2.
9		[NOT TSPC_DualRate]			
10		[TSPC_Serv_TS62]			TS62
11		+BasicServiceMT(C_AutoFax, C_Full)			
12		+local_testfullrate			3.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_0521	[C_Yes]		I	
		local_testfullrate			
14		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
15		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
16		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))			
17		+localtree (C_Full)			
		local_testhalfrate			
18		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			4.
19		+localtree(C_Half)			
		localtree(rate : IA5String)			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
24		L?DL_EstInPgRes	PagingRes(PagingRes_03(TSPX_CKSNA))		
25		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
27		L?DL_DatInAuthRes(TCV_Sres:=DL_ DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
28		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
29	L_0522	[NOT TCV_Res]		(F)	
30		+PostMainLinkRel(TCV_ch)			
31	L_0523	[TCV_Res]		(P)	5.
32		+localtree1(rate)			
		localtree1(rate : IA5String)			
33		+Ciphering_on(TCV_ch)			
34		(TCV_Setup_mt.sig := Signal_01)			
35		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		6.
36		L?DL_DatInCallCo (TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
37		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
38		+localtree2(rate)			
39		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
40		(TCV_Res := OO_AltIndCHK())			
41		+Check_Result			
42		(TCV_Null := OO_HookOff())			9.
43		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
44		+localtree2(rate)			
		localtree2(rate : IA5String)			
45		+AssCmdGen(TCV_cellid, rate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
46		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
47		+localtree3			
		localtree3			
48		[TCV_Setup_mt.bcap1.itc = ’000’B]			
49		(TCV_Res := OO_TCHThroConnCHK())			
50		+Check_Result			
51		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
52		+ltree_clearCall			
53		[TCV_Setup_mt.bcap1.itc <> ’000’B]			
54		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
55		(TCV_Res := OO_TCHThroConnCHK())			
56		+Check_Result			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
57		+ltree_clearCall			
		ltree_clearCall			
58		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02,Cause_01, ProgInd_omit, UuInfo_omit))		
59		L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))		
60		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch,ReleaseCmp_08(TI_02))		
61		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To perform the test on full rate telephony service.
2. To perform the test on half rate telephony.
3. To perform the test on TS62 service.
4. To setup the previous full rate channel into half rate channel.
5. Authentication is OK.
6. SETUP message without signal IE.
7. Late assignment.
8. Alerting indication not correct.
9. To accept the call at the MS.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_6_1_1

Group : StructureProc/

Purpose : 1) To verify that an MS supporting speech in the MM state "idle, updated", when made to call the number 112, sends a CHANNEL REQUEST message with establishment cause "emergency call".

2) To verify that after assignment of a dedicated channel the first layer message sent by the MS on the assigned dedicated channel is a CM SERVICE REQUEST message specifying the correct CKSN and TMSI, with CM Service Type "emergency call establishment" .

3) To verify that authentication and cipher mode setting are performed successfully.

4) To verify that after cipher mode setting acceptance by the SS, the MS sends an EMERGENCY SETUP message.

5) To verify that subsequently, the SS having sent a CALL PROCEEDING message and then an ALERT message and having initiated the assignment procedure of an appropriate speech traffic channel, which, if the MS supports both TCH/FS and TCH/HS, is at the preferred rate, the MS performs correctly that assignment procedure.

6) To verify subsequent correct performance of a connect procedure.

7) To verify that subsequently the MS has through connected the TCH in both directions.

8) To verify that the call is cleared correctly.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4	body	+InitCall(TCV_Service)			
5	L_0530	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)	(P)	2.
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
8	L_0531	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_06(TSPX_CKSNA))	(P)	3.
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))		
11		L?DL_DatInAuthRes(TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
12		+local_continue			
		local_continue			
13		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
14	L_0532	[NOT TCV_Res]		(F)	4.
15		+PostMainLinkRel(TCV_ch)			
16	L_0533	[TCV_Res]		(P)	5.
17		+Ciphering_on(TCV_ch)			
18		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			6.
19		+local_preferred_rate			
20		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
21		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
22		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
23		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
24		+local_continue1			
		local_continue1			
25		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
26	L_0534	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
27		(TCV_Res := OO_TCHThroConnCHK())			
28		+Check_Result			
29		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30	L_0537	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
31		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
32		+PostMainLinkRel(TCV_chTch)			
		local_preferred_rate			
33		+set_radio_chan_req			
34		[TSPC_DualRate]			
35		[TCV_Rchr = '11'B]			9.
36		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
37		(TCV_ChRate := C_Full)			
38		[TCV_Rchr = '10'B]			10.
39		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
40		(TCV_ChRate := C_Half)			
41		[NOT TSPC_DualRate]			
42		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
43		(TCV_ChRate := C_Full)			
		set_radio_chan_req			
44		[NOT TCV_Ecall]			
45		(TCV_Rchr := TCV_Setup_mo1.bcap1.rchr)			
46		[TCV_Ecall]			
47		(TCV_Rchr := TCV_Esetup1.bcap.rchr)			

Detailed Comments :
1. To setup a physical channels as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type correct TMSI and CKSN received.
4. Authentication failed.
5. Authentication passed.
6. EMERGENCY SETUP with BC or without BC received.
7. The TCH channel is not through connected, fail.
8. The TCH channel is through connected.
9. dual rate / full rate preferred" case. setup a physical channel as full rate traffic channel and the preferred full rate channel is to be assigned.
10. dual rate / half rate preferred" case. setup a physical channel as half rate traffic channel and the preferred half rate channel is to be assigned.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_6_1_2

Group : StructureProc/

Purpose : 1) To verify that the MS in the "idle, no IMSI" state (no SIM inserted) when made to call the number 112, sends a CHANNEL REQUEST message with establishment cause "emergency call".

2) To verify that after assignment of a dedicated channel the first layer message sent by the MS on the assigned dedicated channel is a CM SERVICE REQUEST message specifying the correct CKSN and TMSI, with CM Service Type "emergency call establishment".

3) To verify that after receipt of a CM SERVICE ACCEPT message from the SS, the MS sends an EMERGENCY SETUP message.

4) To verify that subsequently, the SS having sent a CALL PROCEEDING message and then an ALERT message and having initiated the assignment procedure of an appropriate speech traffic channel, which, if the MS supports both TCH/FS and TCH/HS, is at the non−preferred rate, the MS performs correctly that assignment procedure.

5) To verify subsequent correct performance of a connect procedure.

6) To verify that subsequently the MS has through connected the TCH in both directions.

7) To verify that the call is cleared correctly.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4	body	+local_continue			
		local_continue			
5		+InitCall(TCV_Service)			
6	L_0538	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)	(P)	2.
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(TSPX_TimadvA)))		
9	L_0539	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_06(TSPX_CKSNA))	(P)	3.
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+Authentication(TCV_ch, TSPX_CKSNA, TSPX_RANDA)			
12	L_0540	[NOT TCV_Res]		(F)	4.
13		+PostMainLinkRel(TCV_ch)			
14	L_0541	[TCV_Res]		(P)	5.
15		+Ciphering_on(TCV_ch)			
16		+local_continue1			
		local_continue1			
17		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			6.
18		+local_nonpreferred_rate			
19		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
20		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
21		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
22		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
23		+local_continue2			
		local_continue2			
24		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
25	L_0542	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
26		(TCV_Res := OO_TCHThroConnCHK())			
27		+Check_Result			
28		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
29	L_0545	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
30		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
31		+PostMainLinkRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_nonpreferred_rate			
32		(TCV_Rchr := TCV_Setup_mo1.bcap1.rchr)			
33		[TCV_Rchr = '10'B]			7.
34		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
35		(TCV_ChRate := C_Full)			
36		[TCV_Rchr = '11'B]			8.
37		+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
38		(TCV_ChRate := C_Half)			

Detailed Comments :
1. To setup a physical channels as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type received.
4. Authentication failed.
5. Authentication passed.
6. EMERGENCY SETUP with a BC indicating "dual rate/half rate preferred" or "dual rate/full rate preferred" received.
7. dual rate / half rate preferred" case. setup a physical channel as full rate traffic channel and the non−preferred full rate channel is to be assigned.
8. dual rate / full rate preferred" case. setup a physical channel as half rate traffic channel and the non−preferred half rate channel is to be assigned.
9. The TCH channel is not through connected, fail.
10. The TCH channel is through connected.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_6_2_1

Group : StructureProc/

Purpose : 1) To verify that the MS in the "idle, no IMSI" state (no SIM inserted) when made to call the number 112, sends a CHANNEL REQUEST message with establishment cause "emergency call".

2) To verify that after assignment of a dedicated channel the first layer message sent by the MS on the assigned dedicated channel is a CM SERVICE REQUEST message in which the cipher key sequence number IE indicates "no key is available", the CM service type IE indicates "emergency call establishment", and the mobile identity IE specifies the IMEI of the MS.

3) To verify that after receipt of a CM SERVICE ACCEPT message from the SS, the MS sends an EMERGENCY SETUP message.

4) To verify that subsequently, the SS having sent a CALL PROCEEDING message and then an ALERT message and having initiated the assignment procedure of an appropriate speech traffic channel, which, if the MS supports both TCH/FS and TCH/HS, is at the preferred rate, the MS performs correctly that assignment procedure.

5) To verify subsequent correct performance of a connect procedure.

6) To verify that subsequently the MS has through connected the TCH in both directions.

7) To verify that the call is cleared correctly.

Configuration :

Default : OtherEventsFail

Comments : For this test case the SIM card shall be removed form the MS.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		[TSPC_SIMRmv]			
6		+body			
7		[NOT TSPC_SIMRmv]			
8		(TCV_Null := OO_SIMRmv())			
9		+MM_PwrOrSimOn(FALSE)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		+body			
		body			
11	body	+InitCall(TCV_Service)			
12	L_0546	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)	(P)	2.
13		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
14		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
15	L_0547	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_07)	(P)	3.
16		ACTIVATE(OtherEventsFail)			Restore Normal default
17		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
18		+local_continue			
		local_continue			
19		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			4.
20		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
21		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
22		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			5.
23		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
24		+local_continue1			
		local_continue1			
25		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
26	L_0548	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
27		(TCV_Res := OO_TCHThroConnCHK())			
28		+Check_Result			
29		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
30	L_0551	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
31		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
32		L!DL_DatRqChRel	ChRel(TCV_chTch, ChRelease_01)		
33	L_0552	L?DL_RelIn	DLRelInd_01	(P)	8.

Detailed Comments :
1. To setup a physical channel as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type received and the mobile identity IE specifies the IMEI of the MS, the classmark IE has the value specified in PIXIT.
4. EMERGENCY SETUP with BC indicating or without BC received.
5. To assign the traffic channel.
6. The TCH channel is not through connected, fail.
7. The TCH channel is through connected.
8. Main signalling link is released.

Test Case Dynamic Behaviour

Test Case Name : TC_26_9_6_2_2

Group : StructureProc/

Purpose : 1) To verify that the MS in the "idle, no IMSI" state (no SIM inserted) when made to call the number 112, sends a CHANNEL REQUEST message with establishment cause "emergency call".

2) To verify that after assignment of a dedicated channel the first layer message sent by the MS on the assigned dedicated channel is a CM SERVICE REQUEST message in which the cipher key sequence number IE indicates "no key is available", the CM service type IE indicates "emergency call establishment", and the mobile identity IE specifies the IMEI of the MS.

3) To verify that after receipt of a CM SERVICE REJECT message from the SS, the MS abandons the emergency call establishment.

Configuration :

Default : OtherEventsFail

Comments : For this test case the SIM card shall be removed form the MS.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		[TSPC_SIMRmv]			
5		+local_continue			
6		[NOT TSPC_SIMRmv]			
7		(TCV_Null := OO_SIMRmv())			
8		+MM_PwrOrSimOn(FALSE)			
9	body	+local_continue			
		local_continue			
10		+InitCall(TCV_Service)			
11	L_0553	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)	(P)	2.
12		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
14	L_0554	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_07)	(P)	3.
15		ACTIVATE(OtherEventsFail)			Restore Normal default
16		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_02)		
17		START T_dly(5000)			4.
18		?TIMEOUT T_dly			
19		+PostMainLinkRel(TCV_ch)			
20		START T_dly(20000)			5.
21		?TIMEOUT T_dly			

Detailed Comments :
1. To setup a physical channel as BCCH CCCH and SDCCH4.
2. CHANNEL REQUEST with "emergency call" received.
3. CM SERVICE REQUEST with "emergency call establishment", IMEI, "no key available" and classmark received.
4. To check whether the MS sends any L 3 messages, the test case fails in the default tree if the MS does.
5. To check whether the MS initiates an RR connection establishment, the test case fails in the default tree if the MS does.

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_1

Group : EGSMSignalling/

Purpose : To verify that the MS reports appropriate results when the test system gives information about neighbouring cells

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(480)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_neighbourdefault, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_21, BcchFreqLst_Omit, BcchFreqLst_27, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+StartMultiCells_02(BcchFreqLst_21, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1, C_LAC_1)			
5		(TCV_Cnt:=0)			
6		REPEAT ltree_loopForC UNTIL [TCV_Cnt =6]			
		ltree_loopForC			
7		+ltree_StartMultiCells			
8		+CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
9	body	+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
10		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
11		+ltree_receiveMsrRept			
12		+local_MsrReptCHK(1, 2)			
13		START T_dly1(960)			960 ms
14		+ltree_receiveMsrRept2			
15		+local_MsrReptCHK(1, 2)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
17		+PostMainLinkRel(TCV_chTch)			
18		+execution2			
		execution2			
19		+ltree_sysinfo5and5bis			1.
20		+PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
21		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
22		+ltree_receiveMsrRept			
23		+local_MsrReptCHK(1, 3)			
24		START T_dly1(960)			960 ms
25		+ltree_receiveMsrRept2			
26		+local_MsrReptCHK(1, 3)			
27		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))			
28		+PostMainLinkRel(TCV_chTch)			
29		(TCV_Cnt:=(TCV_Cnt +1))			
		ltree_sysinfo5and5bis			
30		+Wait(C_T_Wait1)			
31		[TCV_Cnt = 1]			
32		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e201))		
33		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch,SysInf5bis(BcchFreqLst_e207))		
34		[TCV_Cnt = 2]			
35		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e202))		
36		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_e208))		
37		[TCV_Cnt = 3]			
38		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e203))		
39		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_e209))		
40		[TCV_Cnt = 4]			
41		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e204))		
42		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_e210))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
43		[TCV_Cnt = 5]			
44		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e205))		
45		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_e211))		
46		[TCV_Cnt = 6]			
47		L!DL_UdatRqSysinfo5	SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_e206))		
48		L!DL_UdatRqSysinfo5bis	SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_e212))		
		local_MsrReptCHK(in1, in2 : INTEGER)			
49		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, in1))			
50	L_0555	[NOT TCV_Res]		(F)	
51	L_0556	[TCV_Res]		(P)	
		ltree_receiveMsrRept			
52		[TCV_Cnt = 1]			
53		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03e(MsrResult_03e1))		
54		[TCV_Cnt = 2]			
55		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03e(MsrResult_03e2))		
56		[TCV_Cnt = 3]			
57		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03e(MsrResult_03e3))		
58		[TCV_Cnt = 4]			
59		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03e(MsrResult_03e4))		
60		[TCV_Cnt = 5]			
61		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_03e(MsrResult_03e5))		
62		[TCV_Cnt = 6]			
63		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept(MsrReport_04e)		
		ltree_receiveMsrRept2			
64		[TCV_Cnt = 1]			
65	L_0557	?TIMEOUT T_dly1		(F)	1.
66		+PostMainLinkRel(TCV_chTch)			
67		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_03e(MsrResult_03e1))		
68		[TCV_Cnt = 2]			
69	L_0558	?TIMEOUT T_dly1		(F)	1.
70		+PostMainLinkRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
71		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_03e(MsrResult_03e2))		
72		[TCV_Cnt = 3]			
73	L_0559	?TIMEOUT T_dly1		(F)	1.
74		+PostMainLinkRel(TCV_chTch)			
75		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_03e(MsrResult_03e3))		
76		[TCV_Cnt = 4]			
77	L_0560	?TIMEOUT T_dly1		(F)	1.
78		+PostMainLinkRel(TCV_chTch)			
79		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_03e(MsrResult_03e4))		
80		[TCV_Cnt = 5]			
81	L_0561	?TIMEOUT T_dly1		(F)	1.
82		+PostMainLinkRel(TCV_chTch)			
83		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_03e(MsrResult_03e5))		
84		[TCV_Cnt = 6]			
85	L_0562	?TIMEOUT T_dly1		(F)	1.
86		+PostMainLinkRel(TCV_chTch)			
87		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept(MsrReport_04e)		
		ltree_StartMultiCells			
88		[TCV_Cnt = 0]			
89		[TCV_Cnt = 1]			
90		+StartMultiCells_02e(BcchFreqLst_e201, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
91		[TCV_Cnt = 2]			
92		+StartMultiCells_02e(BcchFreqLst_e202, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
93		[TCV_Cnt = 3]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
94		+StartMultiCells_02e(BcchFreqLst_e203, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
95		[TCV_Cnt = 4]			
96		+StartMultiCells_02e(BcchFreqLst_e204, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
97		[TCV_Cnt = 5]			
98		+StartMultiCells_02e(BcchFreqLst_e205, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
99		[TCV_Cnt = 6]			
100		+StartMultiCells_02e(BcchFreqLst_e206, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)			
Detailed Comments : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.					

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_2

Group : EGSMSignalling/

Purpose : To verify that the MS can correctly set up a dedicated control channel when E−GSM frequencies are used.

Configuration :

Default : OtherEventsFail_01

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	pre	START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_19, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_1015, C_arfcn_1015, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero, TCV_Cnt:= 1)			
4	body	REPEAT localtree_body UNTIL [TCV_Cnt =3]			
		localtree_body			
5		+localtree_config			
6		+Wait(C_T_Wait1)			
7		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		+ltree_send_immass			
11	L_0563	L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)	(P)	
12		ACTIVATE(OtherEventsFail_01)			Restore Normal default
13		+ChanRel(TCV_ch)			
14		(TCV_Null := OM_FreeResource(TCV_ch), TCV_Cnt := TCV_Cnt + 1)			
		localtree_config			
15		[TCV_Cnt = 1]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Ass, TSPX_TmSltNotZero, TSPX_TscDef, ChMod_sign, FreqSDCCH8_e1, FreqSDCCH8_e1, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			for 1)
17		+SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis)			
18		[TCV_Cnt =2]			
19		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubB, C_Ass, TSPX_TmSltNotZero, TSPX_TscDef, ChMod_r01, FreqSDCCH8_e2, FreqSDCCH8_e2, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
20		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
21		(TCV_ch := TCV_chTch)			
		ltree_send_immass			
22		[TCV_Cnt = 1]			
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_E_01(TCV_Rr, TCV_Fn, TCV_ia_ts, TSPX_TscDef, TCV_chdescr_arfcn, TimingAdv(0)))		1)
24		[TCV_Cnt = 2]			
25		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_E_02(TCV_Rr, TCV_Fn, TCV_ia_ts, TSPX_TscDef, TimingAdv(0)))		2)
Detailed Comments : 1) Immediate Assignment with single RF on ARFCN=1015 2) Immediate Assignment with frequency hopping					

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_3

Group : EGSMSignalling/

Purpose :
1. To verify that upon receipt of an ASSIGNMENT COMMAND, the MS switches to the channel defined in the ASSIGNMENT COMMAND, establishes the link and sends an ASSIGNMENT COMPLETE message.

2. To verify that an MS, having received an ASSIGNMENT COMMAND, is able in case of frequency hopping to decode the mobile allocation and frequency list correctly and applies the specified frequencies.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	pre	START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_22, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSltA, TCV_Cnt := 1, TCV_chdescr_arfcn := C_arfcnC)			
4	body	REPEAT localtree_body UNTIL [TCV_Cnt =3]			
		localtree_body			
5		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubDef, C_Ass, TCV_ia_ts, TSPX_TscDef, ChMod_sign, FreqBCCH(TCV_chdescr_arfcn), FreqBCCH(TCV_chdescr_arfcn), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
6		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
7		(TCV_ch := TCV_chTch)			
8		+Wait(C_T_Wait1)			
9		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
11		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
12		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)		
14		ACTIVATE(OtherEventsFail)			Restore Normal default
15		+ltree_chtype			
16		+ltree_send_ch_assign			
17		+ChanRel(TCV_chTch)			
18		(TCV_Null := OM_FreeResource(TCV_chTch), TCV_Cnt := (TCV_Cnt + 1))			Loop for K
19		+Wait(C_T_Wait1)			
		ltree_chtype			
20		[TSPC_SvcOnTCH]			
21		(TCV_chtype := '00001'B)			for TCH
22		[NOT TSPC_SvcOnTCH]			
23		(TCV_chtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))			for SDCCH 8
		ltree_send_ch_assign			
24		[TCV_Cnt = 1]			
25		(TCV_asscmd_ts := INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltA) + 1) MOD 8), 3), TCV_Cnt1 := 1)			
26		REPEAT ltree_assign1 UNTIL [TCV_Cnt1 = 7]			
27		[TCV_Cnt = 2]			
28		(TCV_Cnt1 := 1)			
29		REPEAT ltree_assign2 UNTIL [TCV_Cnt1 = 7]			
		ltree_assign1			
30		+ltree_assign1_setup			
31		+ltree_chnassign1			
32		(TCV_AssCmd := AsgnCmd_22_Ae1(TCV_asscmd_ts, TCV_chtype, TCV_flist, TCV_flistl, TCV_n))			
33		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			1)
34		START T_dly(500)			6)
35		?TIMEOUT T_dly			
36		(TCV_Cnt1 := (TCV_Cnt1 + 1), TCV_Null := OM_FreeResource(TCV_ch), TCV_ch := TCV_chTch)			Loop for C
		ltree_assign2			
37		+ltree_assign2_setup			
38		+ltree_asscmdsending			
39		START T_dly(500)			6)
40		?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		(TCV_Cnt1 := (TCV_Cnt1 + 1), TCV_Null := OM_FreeResource(TCV_ch), TCV_ch := TCV_chTch)			
		ltree_asscmdsending			
42		[TCV_Cnt1 = 4]			
43		+ltree_chnassign1			3)
44		(TCV_AssCmd := AsgnCmd_22_Ae2(TCV_asscmd_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_n))			
45		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2)
46		[TCV_Cnt1 <> 4]			
47		+ltree_chnassign2			4)
48		(TCV_AssCmd := AsgnCmd_22_Ae3(TCV_asscmd_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_mae2, TCV_n))			
49		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2)
		ltree_chnassign1			
50		[TSPC_SvcOnTCH]			1)
51		[(TCV_Cnt1 MOD 2) > 0]			
52		+FullRateCh_A_1_nociph(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
53		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
54		[(TCV_Cnt1 MOD 2) = 0]			
55		+FullRateCh_A_2_nociph(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
56		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
57		(TCV_chTch := TCV_chTch1)			
58		[(NOT TSPC_SvcOnTCH)]			2)
59		[(TCV_Cnt1 MOD 2) > 0]			
60		(TCV_chTch := TCV_ch)			
61		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign, FreqTCH_ef1(TCV_mae1,TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1,TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
62		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
63		(TCV_chTch1 := TCV_chTch, TCV_chTch := TCV_ch, TCV_ch := TCV_chTch1)			5)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
64		[(TCV_Cnt1 MOD 2) = 0]			
65		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubA, C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign, FreqTCH_ef1(TCV_mae1,TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1,TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
66		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
		ltree_chnassign2			
67		[TSPC_SvcOnTCH]			1)
68		[(TCV_Cnt1 MOD 2) > 0]			
69		+FullRateCh_A_1_nociph(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
70		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
71		[(TCV_Cnt1 MOD 2) = 0]			
72		+FullRateCh_A_2_nociph(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
73		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
74		(TCV_chTch := TCV_chTch1)			
75		[(NOT TSPC_SvcOnTCH)]			2)
76		[(TCV_Cnt1 MOD 2) > 0]			
77		(TCV_chTch := TCV_ch)			
78		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign, FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
79		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
80		(TCV_chTch1 := TCV_chTch, TCV_chTch := TCV_ch, TCV_ch := TCV_chTch1)			
81		[(TCV_Cnt1 MOD 2) = 0]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
82		+SDCCH8_A_2_nociph(TSPX_SDCCH8SubA, C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign, FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae2, TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
83		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
		ltree_assign1_setup			
84		[TCV_Cnt1 = 1]			
85		(TCV_flist := C_flist_e_401, TCV_flistl:='05'O, TCV_mae1:='00000111'B, TCV_n := 3)			
86		[TCV_Cnt1 = 2]			
87		(TCV_flist := C_flist_e_402, TCV_flistl:='06'O, TCV_mae1:='00011111'B, TCV_n := 5)			
88		[TCV_Cnt1 = 3]			
89		(TCV_flist := C_flist_e_403, TCV_flistl:='06'O, TCV_mae1:= '00001111'B, TCV_n := 4)			
90		[TCV_Cnt1 = 4]			
91		(TCV_flist := C_flist_e_404, TCV_flistl:='06'O, TCV_mae1:='00001111'B, TCV_n := 4)			
92		[TCV_Cnt1 = 5]			
93		(TCV_flist := C_flist_e_405, TCV_flistl:='07'O, TCV_mae1:='00111111'B, TCV_n := 6)			
94		[TCV_Cnt1 = 6]			
95		(TCV_flist := C_flist_e_406, TCV_flistl:='10'O, TCV_mae1:='00000111'B, TCV_n := 3)			
		ltree_assign2_setup			
96		[TCV_Cnt1 = 1]			
97		(TCV_cchdescr := C_cchd_e_407, TCV_mae1:='00011100'B, TCV_mae2:='00000000'B, TCV_flist:=C_flist_e_407, TCV_flistl:='10'O, TCV_n := 3)			
98		[TCV_Cnt1 = 2]			
99		(TCV_cchdescr := C_cchd_e_408, TCV_mae1:='00000000'B, TCV_mae2:='11111000'B, TCV_flist:= C_flist_e_408, TCV_flistl:='0D'O, TCV_n := 5)			
100		[TCV_Cnt1 = 3]			
101		(TCV_cchdescr := C_cchd_e_409, TCV_mae1:='00000000'B, TCV_mae2:='00001111'B, TCV_flist:= C_flist_e_409, TCV_flistl:='10'O, TCV_n := 4)			
102		[TCV_Cnt1 = 4]			
103		(TCV_cchdescr := C_cchd_e_415, TCV_mae1:='11100011'B, TCV_flist:= C_flist_e_415, TCV_flistl:='09'O, TCV_n := 5)			
104		[TCV_Cnt1 = 5]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
105		(TCV_cchdescr := C_cchd_e_411, TCV_mae1:='00000001'B, TCV_mae2:='11110000'B, TCV_flist:= C_flist_e_411, TCV_flistl:='07'O, TCV_n := 5)			
106		[TCV_Cnt1 = 6]			
107		(TCV_cchdescr := C_cchd_e_412, TCV_mae1:='00000000'B, TCV_mae2:='00000111'B, TCV_flist:= C_flist_e_412, TCV_flistl:='10'O, TCV_n := 3)			

Detailed Comments :
1) Assignment Command without Cell Channel Description IE
2) Assignment Command with Cell Channel Description IE
3) Length of mobile alocation contents is 1 octet
4) PDU contains Mobile Allocation with 2 octets
5) To ensure the correct channel id is in the correct test case variable
6) Ensure all communication is complete before freeing the resource

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_4_1

Group : EGSMSignalling/

Purpose : To check that the MS correctly performs a non−synchronized handover, from a non hopping primary band SDCCH to a hopping TCH or SDCCH using E−GSM frequencies, whatever the coding used for the hopping sequence description and that it activates the new channel correctly.

This tested in the following case:
E−GSM signalling/ Handover / successful / call under establishment / non−synchronized /
− from SDCCH/8 to TCH/F if the MS supports a TCH
− from SDCCH/8 to SDCCH/8 if not

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1500)			
2		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		(TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5), TCV_flist := C_flist_e_416, TCV_flistl:= ’10’O, TCV_mae1 := ’00000101’B, TCV_mae2 := ’00000001’B, TCV_n:=3)			1.
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, TSPX_TscDef, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_23A, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
5		(TCV_ia_ts:=TSPX_TmSltNotZero)			
6		+local_continue			
		local_continue			
7		(TCV_sysinfo5bis_A := TCV_sysinfo5bis)			
8		+StartCellB_egsm(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_arfcnBd, C_Immass, C_S0, TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_23B, BcchFreqLst_52, BcchFreqLst_47, C_noRestablishment, C_BCC, C_NCC)			
9		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSltNotZero, TCV_tsc, ChMod_sign, FreqTCH(TSPX_SDCCHcarrierA_ho), FreqTCH_omit, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			TCV_ch

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		(TCV_sacchTch2 := TCV_sacch8)			
11		+SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis_A)			
12	body	(TCV_counter_k :=1, TCV_ch1 := TCV_ch, TCV_tch_arfcn := TSPX_SDCCHcarrierA_ho)			
13		+ltree_chtype			
14		REPEAT local_body UNTIL [TCV_counter_k =4]			Loop of k = 1 to 3
		local_body			
15		(TCV_counter_c :=1)			
16		REPEAT ltree_execloopC UNTIL [TCV_counter_c=7]			Loop of c = 1 to 6
17		(TCV_counter_k := (TCV_counter_k +1))			
		ltree_execloopC			
18		[(TCV_counter_k <>1) OR (TCV_counter_c<>6)]			
19		+ltree_chconfig			
20		+Est_MO_Call_init(C_CHSDCCH8_NonFH, MoblAllc_01, MoblAllc_01, TimingAdv(30), TSPX_TscDef, C_one, C_one)			
21		(TCV_nc := '010'B)			
22		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
23		+ltree_hocmd			
24		(TCV_chTch1 := TCV_ch)			
25		(TCV_ch := TCV_chTch)			
26		(TCV_Null := OM_SendNextOnHO(TCV_ch, TCV_Cntref))			
27		L!DL_DatRqPhyinfo	PhyInfo_01(TCV_ch, TimingAdv(20))		
28		+RR_hocompE(TCV_M, TCV_chTch1, TCV_chtype)			
29		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
30		+SendSeqNo_chk			
31		+ChanRel_02(TCV_ch)			
32		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
33		(TCV_counter_c := (TCV_counter_c+1), TCV_ch := TCV_ch1, TCV_Null :=OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			SDCCH 8_A_1 back to no cipherin g mode

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
34		(TCV_ia_ts := TSPX_TmSltNotZero)			
35		+Wait(35000)			
36		[(TCV_counter_k = 1) AND (TCV_counter_c = 6)]			no test for k=1 and c=6
37		(TCV_counter_c := (TCV_counter_c+1), TCV_ch := TCV_ch1)			
		ltree_chtype			
38		[TSPC_Serv_TS11 OR TSPC_Serv_TS12]			
39		(TCV_chtype := '00001'B, TCV_M := 500, TCV_Cntref:= TSPX_NoOfHoAccA)			TCH
40		[(NOT TSPC_Serv_TS11) AND (NOT TSPC_Serv_TS12)]			
41		(TCV_chtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)),5), TCV_M :=750, TCV_Cntref:= TSPX_NoOfHoAccI)			SDCCH 8
		ltree_hocmd			
42		[TCV_counter_k = 1]			for k = 1
43		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_chtype, TSPX_TmSltNotZero1, TSPX_TscDef, C_NCC_1, C_BCC, C_BCCHcarrierB_ho, TCV_n, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_short(TCV_flist), Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
44		[TCV_counter_k = 2]			for k = 2
45		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_chtype, TSPX_TmSltNotZero1, TSPX_TscDef, C_NCC_1, C_BCC, C_BCCHcarrierB_ho, TCV_n, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql(TCV_flist, TCV_flistl), CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
46		[TCV_counter_k = 3]			for k = 3
47		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_chtype, TSPX_TmSltNotZero1, TSPX_TscDef, C_NCC_1, C_BCC, C_BCCHcarrierB_ho, TCV_n, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_omit, Frql_omit, CellChDes_20_Be(TCV_cchdescr), TCV_ChMod, Freqchseq_omit, MoblAllc_20_Be2iei(TCV_mae2, TCV_mae1), RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
		ltree_chconfig			
48		+local_setHoppingPara			
49		+local_configChOfCellB			
		local_setHoppingPara			
50		[TCV_counter_k = 1]			
51		[TCV_counter_c = 1]			
52		(TCV_flist := C_flist_e_401s, TCV_flistl:='09'O, TCV_mae1:='00000111'B, TCV_n := 3)			k =1 and c =1
53		[TCV_counter_c = 2]			
54		(TCV_flist := C_flist_e_402s, TCV_flistl:='09'O, TCV_mae1:='00011111'B, TCV_n := 5)			k =1 and c =2
55		[TCV_counter_c = 3]			
56		(TCV_flist := C_flist_e_403s, TCV_flistl:='09'O, TCV_mae1:= '00001111'B, TCV_n := 4)			k =1 and c =3
57		[TCV_counter_c = 4]			
58		(TCV_flist := C_flist_e_404s, TCV_flistl:='09'O, TCV_mae1:='00001111'B, TCV_n := 4)			k =1 and c =4
59		[TCV_counter_c = 5]			
60		(TCV_flist := C_flist_e_405s, TCV_flistl:='09'O, TCV_mae1:='00111111'B, TCV_n := 6)			k =1 and c =5
61		[TCV_counter_k = 2]			
62		[TCV_counter_c = 1]			
63		(TCV_flist := C_flist_e_401, TCV_flistl:='05'O, TCV_mae1:='00000111'B, TCV_n := 3)			k =2 and c = 1
64		[TCV_counter_c = 2]			
65		(TCV_flist := C_flist_e_402, TCV_flistl:='06'O, TCV_mae1:='00011111'B, TCV_n := 5)			k =2 and c = 2
66		[TCV_counter_c = 3]			
67		(TCV_flist := C_flist_e_403, TCV_flistl:='06'O, TCV_mae1:= '00001111'B, TCV_n := 4)			k =2 and c = 3
68		[TCV_counter_c = 4]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
69		(TCV_flist := C_flist_e_404, TCV_flistl:='06'O, TCV_mae1:='00001111'B, TCV_n := 4)			k =2 and c = 4
70		[TCV_counter_c = 5]			
71		(TCV_flist := C_flist_e_405, TCV_flistl:='07'O, TCV_mae1:='00111111'B, TCV_n := 6)			k =2 and c = 5
72		[TCV_counter_c = 6]			
73		(TCV_flist := C_flist_e_406, TCV_flistl:='10'O, TCV_mae1:='00000111'B, TCV_n := 3)			k =2 and c = 6
74		[TCV_counter_k = 3]			
75		[TCV_counter_c = 1]			
76		(TCV_cchdescr := C_cchd_e_407, TCV_mae2:='00011100'B, TCV_mae1:='00000000'B, TCV_flist:=C_flist_e_407, TCV_flistl:='10'O, TCV_n := 3)			k =3 and c = 1
77		[TCV_counter_c = 2]			
78		(TCV_cchdescr := C_cchd_e_408, TCV_mae2:='00000000'B, TCV_mae1:='11111000'B, TCV_flist:= C_flist_e_408, TCV_flistl:='0D'O, TCV_n := 5)			k =3 and c = 2
79		[TCV_counter_c = 3]			
80		(TCV_cchdescr := C_cchd_e_409, TCV_mae2:='00000000'B, TCV_mae1:='00001111'B, TCV_flist:= C_flist_e_409, TCV_flistl:='10'O, TCV_n := 4)			k =3 and c = 3
81		[TCV_counter_c = 4]			
82		(TCV_cchdescr := C_cchd_e_410, TCV_mae2:='00000001'B, TCV_mae1:='10000011'B, TCV_flist:= C_flist_e_410, TCV_flistl:='0A'O, TCV_n := 4)			k =3 and c = 4
83		[TCV_counter_c = 5]			
84		(TCV_cchdescr := C_cchd_e_411, TCV_mae2:='00000001'B, TCV_mae1:='11110000'B, TCV_flist:= C_flist_e_411, TCV_flistl:='07'O, TCV_n := 5)			k =3 and c = 5
85		[TCV_counter_c = 6]			
86		(TCV_cchdescr := C_cchd_e_412, TCV_mae2:='00000000'B, TCV_mae1:='00000111'B, TCV_flist:= C_flist_e_412, TCV_flistl:='10'O, TCV_n := 3)			k =3 and c = 6
		local_configChOfCellB			
87		(TCV_cellid:=C_CellB)			
88		(TCV_Null := OM_ChangeRFOf2Cells(C_CellA, C_E_default, C_CellB, C_E_neighbourdefault))			set CellB back tp −60 dBm
89		[TSPC_Serv_TS11 OR TSPC_Serv_TS12]			2.
90		(TCV_ChMod.mode := C_ChMod_r)			
91		[TCV_counter_k <> 3]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
92		+FullRateCh_B_1(C_Asynho, TSPX_TmSltNotZero1, TSPX_TscDef, TCV_ChMod, FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
93		[TCV_counter_k = 3]			
94		+FullRateCh_B_1(C_Asynho, TSPX_TmSltNotZero1, TSPX_TscDef, TCV_ChMod, FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist, TCV_flistl, TCV_n), TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
95		[(NOT TSPC_Serv_TS11) AND (NOT TSPC_Serv_TS12)]			3.
96		(TCV_ChMod.mode := C_ChMod_s)			
97		[TCV_counter_k <> 3]			
98		+SDCCH8_B_1(TSPX_SDCCH8SubDef, C_Asynho, TSPX_TmSltNotZero1, TSPX_TscDef, TCV_ChMod, FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
99		[TCV_counter_k = 3]			
100		+SDCCH8_B_1(TSPX_SDCCH8SubDef, C_Asynho, TSPX_TmSltNotZero1, TSPX_TscDef, TCV_ChMod, FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist, TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist, TCV_flistl, TCV_n), TimingAdv(20), C_BABR_0, C_cch_1nonComb, C_BPM_3)			

Detailed Comments :
1. Values TCV_flist , TCV_mae1 and TCV_mae2 are initialized for hopping frequencies : 20, 66, 78 in cell A.
2. for HO from SDCCH8 no FH in cell A to TCH/F FH in cell B
3. for HO from SDCCH8 no FH in cell A to SDCCH8 FH in cell B

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_4_2

Group : EGSMSignalling/

Purpose : To check that the MS correctly returns to the old channel in the case of an handover failure caused by a layer 1 failure on the target cell, even if the origin is in the P−GSM band and the targetin the E−GSM band.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_asscmd_ts:= TSPX_TmSltNotZero, TCV_ts:= TSPX_TmSltNotZero1, TCV_Cntref:= TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= ’01100’B)			
3		+BasicServiceMT(TSPX_MTBscSvcD, TSPX_MTChRateD)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
5		+StartCellB(C_E_neighbourdefault, C_BCCHcarrierB_ho, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
6		+ltree_configTchA			
7		+ltree_u10			
8		+ltree_body			
		ltree_body			
9		(TCV_flist := C_flist_e_401s, TCV_flistl := ’09’O, TCV_mae1:= ’00000111’B, TCV_n := 3, TCV_ch := TCV_chTch, TCV_sacch := TCV_sacchTch)			
10		+ltree_configTchB			
11		(TCV_L1Head0 := OM_GetL1Hd(TCV_sacch))			
12		START T_guard(60)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L!DL_DatRqHoCmd	HndOvSnd(TCV_ch, HandOverCmd_fh(TCV_chtype, TCV_ts, TSPX_TscDef, C_NCC, C_BCC, C_BCCHcarrierB_ho, TCV_n, TSPX_HSN, TCV_Horf, TCV_Pwrlvl_ho, Synchi_omit, Frql_short(TCV_flist), Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
14		START T_dly(3000)			
15		(TCV_Cnt:=0)			
16		REPEAT ltree_hoacc UNTIL [TCV_Cnt = TCV_Cntref]			
17		L?DL_EstIn	DLEstInd(TCV_ch)		
18		L?DL_DatInHofl	HndOvFlRcv(TCV_ch, HandOvFail_02)		
19		(TCV_L1Head := OM_GetL1Hd(TCV_sacch))			
20	L_0564	[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]		(P)	
21		+ChanRel_end(TCV_ch)			
22		[TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]			
23		+ChanRel_end(TCV_ch)			
24	L_0565	?TIMEOUT T_dly		(F)	
25		+ChanRel(TCV_chTch)			
		ltree_configTchA			
26		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := ’00001’B)			
27		+Config_FACCHF_A_1(63, 10, ChMod_speech, C_Ass, TCV_asscmd_ts, TCV_tsc, FreqTCH(TSPX_TCHcarrierA_ho), C_TCHF_ACCHF_1, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
28		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
29		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
		ltree_configTchB			
30		(TCV_chTch := C_FACCHF_B_1, TCV_sacchTch := C_SACCHF_B_1, TCV_chtype := ’00001’B)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		+Config_FACCHF_B_1(63, BIT_TO_INT(TCV_Pwrlvl_ho), ChMod_speech, C_Rcv, TCV_ts, TCV_tsc, FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl, TCV_n), C_TCHF_ACCHF_1, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
32		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
33		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
		ltree_hoacc			
34		L?DL_RacInHoacc	HndOvAccRcv(TCV_chTch, HandOverAcc_02(TCV_Horf))		
35		(TCV_Cnt := TCV_Cnt + 1)			
		ltree_u10			
36		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
37		(TCV_Setup_mt.sig := Signal_01)			
38		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
39		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		1.
40		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
41		+localtree			
42		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
43		(TCV_Null := OO_HookOff())			
44		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
45		+localtree			
		localtree			
46		(TCV_AssCmd := AsgnCmd_nfh('00001'B, TCV_asscmd_ts, TSPX_TscDef, 10, TSPX_TCHcarrierA_ho, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_omit))			
47		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2.
48		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
49		(TCV_sacchTch := C_SACCHF_A_1)			
50		(TCV_nc := '010'B)			
51		+Check_Cells_Present (TCV_nc, TCV_sacchTch)			

Detailed Comments : 1. If the MS supports the bearer capabilities, which are give in Setup message, it has to accept them. However, it may still send a bearer capability IE in the Call Confirm message.
2. TCH/F or SDCCH/4 with non hopping in selected cell.
Power level = 10

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_2_5

Group : EGSMSignalling/

Purpose : 1) To verify that the MS, after receiving a FREQUENCY REDEFINITION message, starts using the new frequencies and hopping sequence when some E−GSM freuencies are used.

2) To check that the last received Cell Channel Description information element is used to decode the Mobile Allocation IE received in the FREQUENCY REDEFINITION message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	pre	START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_22, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSltNotZero)			
4		(TCV_Cnt1 := 1)			
5	body	REPEAT localtree_body UNTIL [TCV_Cnt1 = 7]			
		localtree_body			
6		+local_ChConfig			
7		+Wait(C_T_Wait1)			
8		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
10		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
11		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, TSPX_TscDef, TCV_chtype, ’000000’B, ’000100’B, TimingAdv(30), MoblAllc_04man, ’01’O))		
12		L?DL_EstInPgRes	PgRes(TCV_ch, PagingRes_01)		
13		ACTIVATE(OtherEventsFail)			Restore Normal default
14		+ltree_setFreqRedefPara			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+ltree_LowerTestorManage			
16		+ltree_sendFreqRedef			
17		+ltree_checkchnafterfreqred			
18		+ChanRel(TCV_ch)			
19		(TCV_Cnt1 := (TCV_Cnt1 +1))			
20		(TCV_Null := OM_FreeResource(TCV_ch))			
		ltree_checkchnafterfreqred			
21		[(TCV_Cnt1 = 4) OR (TCV_Cnt1 = 6)]			Ma1)
22		(TCV_Res := OM_FHCHK(TCV_ch, CellChDes_20_Be(TCV_cchdescr), MoblAllc_20_Be1 (TCV_mae1), TCV_chd1, 100, TCV_Fn))			
23	L_0566	[NOT TCV_Res]		(F)	
24	L_0567	[TCV_Res]		(P)	
25		[(TCV_Cnt1 <> 4) AND (TCV_Cnt1 <> 6)]			Ma2)
26		(TCV_Res := OM_FHCHK(TCV_ch, CellChDes_20_Be(TCV_cchdescr), MoblAllc_20_Be2(TCV_mae1, TCV_mae2), TCV_chd1, 100, TCV_Fn))			
27	L_0568	[NOT TCV_Res]		(F)	
28	L_0569	[TCV_Res]		(P)	
		ltree_LowerTestorManage			
29		(TCV_Fn := OM_ComingFn(TCV_ch), TCV_chd1 := ChDescrp_fh(TCV_chtype, TSPX_TmSltNotZero1, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD TCV_n), 6), INT_TO_BIT(TSPX_HSN, 6)), TCV_Strt := OC_StartTime(TCV_Fn, 100, 0), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn))			
30		[(TCV_Cnt1 = 4) OR (TCV_Cnt1=6)]			Ma1)
31		(TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_20_Be1(TCV_mae1), TCV_ch, TCV_chd1, CellChDes_20_Be(TCV_cchdescr), TCV_Fn))			
32		[(TCV_Cnt1 <>4) AND (TCV_Cnt1<>6)]			Ma2)
33		(TCV_Null := OM_FreqDef(TCV_Strt, MoblAllc_20_Be2(TCV_mae1, TCV_mae2), TCV_ch, TCV_chd1, CellChDes_20_Be(TCV_cchdescr), TCV_Fn))			
		ltree_sendFreqRedef			
34		[TCV_Cnt1 <> 6]			
35		[TCV_Cnt1 = 4]			Ma1)
36		L!DL_DatRqFrqre	FrqRedfSnd(TCV_ch, FreqRedef_20(TCV_ia_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_Strt, TCV_n))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37		[TCV_Cnt1 <> 4]			Ma2)
38		L!DL_DatRqFrqre	FrqRedfSnd(TCV_ch, FreqRedef_22(TCV_ia_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_mae2, TCV_Strt, TCV_n))		
39		[TCV_Cnt1 = 6]			Ma1)
40		L!DL_DatRqFrqre	FrqRedfSnd(TCV_ch, FreqRedef_21(TCV_ia_ts, TCV_chtype, TCV_mae1, TCV_Strt, TCV_n))		
		ltree_setFreqRedefPara			
41		[TCV_Cnt1 = 1]			
42		(TCV_cchdescr := C_cchd_e_407, TCV_mae1:='00011100'B, TCV_mae2:='00000000'B, TCV_n := 3)			
43		[TCV_Cnt1 = 2]			
44		(TCV_cchdescr := C_cchd_e_408, TCV_mae1:='00000000'B, TCV_mae2:='11111000'B, TCV_n := 5)			
45		[TCV_Cnt1 = 3]			
46		(TCV_cchdescr := C_cchd_e_409, TCV_mae1:='00000000'B, TCV_mae2:='00001111'B, TCV_n := 4)			
47		[TCV_Cnt1 = 4]			
48		(TCV_cchdescr := C_cchd_e_415, TCV_mae1:='01100011'B, TCV_n := 4)			
49		[TCV_Cnt1 = 5]			
50		(TCV_cchdescr := C_cchd_e_411, TCV_mae1:='00000001'B, TCV_mae2:='11110000'B, TCV_n := 5)			
51		[TCV_Cnt1 = 6]			
52		(TCV_cchdescr := C_cchd_e_414, TCV_mae1:='00001110'B, TCV_n := 3)			
		local_ChConfig			
53		[TSPC_SvcOnTCH]			
54		+FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts, TSPX_TscDef, ChMod_sign, Freq_rg8, Freq_rg8, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
55		(TCV_ch := TCV_chTch)			
56		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
57		[NOT TSPC_SvcOnTCH]			
58		(TCV_chtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)),5))			
59		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscDef, ChMod_sign, Freq_rg8, Freq_rg8, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
60		+SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis)			

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Test Case Dynamic Behaviour	
Detailed Comments :	Ma1) Mobile Allocation with 1 octets Ma2) Mobile Allocation with 2 octets

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_3_1

Group : EGSMSignalling/

Purpose : 1) To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, when made to initiate a call for a selected teleservice that is supported ba the MS as declared in a PICS/PIXIT statement, starts to initiate an immediate assignment procedure bz sending the CHANNEL REQUEST message.

2) To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after having successfully performed authenticiation and cipher mode setting procedures, after having sent a SETUP message, after having received a CALL PROCEEDING message followed by an ALERTING message and an ASSIGNMENT COMMAND message allocating an appropriate TCH, the MS sends an ASSIGNMENT COMPLETE message.

3) To verify that subsequently, after the suite of actions specified in test purposes 1 and 2, the MS after receiving a CONNECT message returns a CONNECT ACKNOWLEDGE message.

4) To verify that after the suite of actions specified in test purposes 1 and 2, the MS after receiving a CONNECT message attaches the user connection to the radion path. (This is checked by verifying that there is a point in time after transmission of the first L2 frame containing the (complete) CONNECT message, where the MS is sending appropriate speech or data frames whenever it doesn't have to transmit or acknowledge an I frame on layer 2 of the FACCH.)

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+ltree_SelectTeleservice			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_22, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_46, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
4		(TCV_chTch := TCV_ch, TCV_chdescr_arfcn:= C_BCCHcarrierB_ho, TCV_ia_ts:= TSPX_TmSltG, TCV_asscmd_ts:= TSPX_TmSltC)			
5		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TCV_tsc, ChMod_sign, FreqSDCCH8_e, FreqSDCCH8_e, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
6		+SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis)			
7		+InitCall(TCV_Service)			
8		+local_continue			
		local_continue			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
10		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
11		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv(0)))		
12		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
13		ACTIVATE(OtherEventsFail)			Restore Normal default
14		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
15		+Ciphering_on(TCV_ch)			
16		+ltree_ccest			
		ltree_SelectTeleservice			
17		[TSPC_Serv_TS11]			
18		+BasicServiceMO(C_Telephony, C_Full)			
19		[TSPC_Serv_TS61]			
20		+BasicServiceMO(C_AltSpchFax, C_Full)			
21		[TSPC_Serv_TS62]			
22		+BasicServiceMO(C_AutoFax, C_Full)			
		ltree_ccest			
23		(TCV_Null := OM_FreeResource(TCV_chTch))			
24		+FullRateCh_A_1(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcnEgsm, C_arfcnEgsm, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
25		+SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)			
26		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
27		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
28		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
29		(TCV_AssCmd := AsgnCmd_nfh('00001'B, TCV_asscmd_ts, TSPX_TscDef, 9, C_arfcnEgsm, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
30		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
31		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
32		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		(TCV_Null := OO_TCHThroConnCHK (), TCV_Null := OO_TermCall())			
34		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))		
35		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TCV_TI))		
36		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))		
37		+PostMainLinkRel(TCV_chTch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_26_10_3_2

Group : EGSMSignalling/

Purpose : 1) To verify that the MS in the "idle, no IMSI" state (no SIM inserted) when made to call the number 112, sends a CHANNEL REQUEST message with establishment cause "emergency call".

2) To verify that after assignment of a dedicated channel the first layer message sent by the MS on the assigned dedicated channel is a CM SERVICE REQUEST message specifiying the correct CKSN and TMSI, with CM Service Type "emergency call establishment".

3) To verify that after receipt of a CM SERVICE ACCEPT message from the SS, the MS sends an EMERGENCY SETUP message.

4) To verify that subsequently, the SS having sent a CALL PROCEEDING message and then an ALERT message and having initiated the assignment procedure, the MS performs correctly that assignment procedure.

5) To verify subsequent correct performance of a connect procedure.

6) To verify that subsequently the MS has throught connected the TCH in both directions.

7) To verify that the call is cleared correctly.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		(TCV_ia_ts:= TSPX_TmSltG)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_Omit, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Ass, TCV_ia_ts, TCV_tsc, ChMod_sign, FreqSDCCH8_e, FreqSDCCH8_e, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			1.
6		+local_TrafficChConf			
7	body	+InitCall(TCV_Service)			
8	L_0570	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)	(P)	2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv(0)))		
11	L_0571	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_06(TSPX_CKSNDef))	(P)	3.
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		+local_continue			
		local_continue			
14		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
15		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
16		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
17		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
18		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
19		(TCV_AssCmd.ch1d_at.arfcn:= INT_TO_BIT(C_arfcnEgsm,10))			
20		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
21		+local_continue1			
		local_continue1			
22		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
23	L_0572	L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))	(P)	
24		(TCV_Res := OO_TCHThroConnCHK())			
25		+Check_Result			
26		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
27	L_0575	L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))	(P)	
28		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
29		+PostMainLinkRel(TCV_chTch)			
		local_TrafficChConf			
30		[TCV_ChRate = C_Full]			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH(C_arfcnEgsm), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			4.
32		[TCV_ChRate = C_Half]			
33		+HalfRateCh_A_1_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH(C_arfcnEgsm), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)			5.

Detailed Comments :
1. To setup a physical channel
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type correct TMSI and CKSN received.
4. To setup aphysical channel as full rate traffic channel.
5. To setup aphysical channel as half rate traffic channel.
6. The TCH channel is not through connected, fail.
7. The TCH channel is through connected.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_1_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for registration of call forwarding in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for registration of call forwarding in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the RegisterSS operation with the expected parameter values for registration of call forwarding.

4) To check that upon receipt of the result of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for :
a) CFNRy, for basic service group speech,

b) CFU, for basic service group all facsimile.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+part1			
4		+part2			
		part1			
5		(TCV_Null := OO_InitSS("**61*00431234*11*5#"))			2. international prefix + Country code
6		+ChannelReqtree			
7		+localtree			
8		+Checktree(C_RegCFNRy)			
		part2			
9		(TCV_Null := OO_InitSS("**21*1234*13#"))			5.
10		+ChannelReqtree			
11		+localtree1			
12		+Checktree(C_RegCFU)			
		localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSS Components.registerSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegisterSS_01)))		
14		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(RegisterSSRslt_01(TCV_InvkId))))		6.
		localtree1			
15		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_02), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSS Components.registerSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegisterSS_02)))		
16		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(RegisterSSRslt_02(TCV_InvkId))))		6.
		ChannelReqtree			
17		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
20		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
		Checktree(par : INTEGER)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		(TCV_Res := OO_SSresultCHK(par))			
24	L_0576	[TCV_Res]		(P)	3.
25		+PostMainLinkRel(TCV_ch)			
26	L_0577	[NOT TCV_Res]		(F)	4.
27		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate a registration of call forwarding service for CFNRy (speech).
3. The user indication is correct.
4. The user indication is wrong.
5. To initiate a registration of call forwarding service for CFU (all facsimile).
6. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_1_2

Group : SS/

Purpose : 1) To check that the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of registration of call forwarding, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the RegisterSS operation with the expected parameter values for registration of call forwarding.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

These checks are performed with a call transaction already established for :
a) CFB, for all asynchronous services, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "Bearer Service not provisioned".

b) CF, for all facsimile, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoke_problem) where invoke_problem is "resource limitation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
6		(TCV_Null := OO_InitSS("**67*00431234*21#"))			3. international prefix + Country code
7		+part1			
8		(TCV_Null := OO_InitSS("**002*00431234*13#"))			4. international prefix + Country code
9		+part2			
		part1			
10		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
12		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1)	Register_03(RegisterPdu_03(facilityIErcviei(RegisterSS_03)))		
13		(TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_03), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSComponents.registerSS_InvokeComp.invokeID, 1))			
14		+localtree			
		localtree			
15		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegisterSSErr_01(TCV_InvkId))))		
16		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
17	L_0578	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
		part2			
18		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
19		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
20		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1)	Register_03(RegisterPdu_03(facilityIErcviei(RegisterSS_04)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		(TCV_n := OC_PosinSet(TCV_Comp, RegisterSS_04), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSComponents.registerSS_InvokeComp.invokeID, 1))			
22		+localtree1			
		localtree1			
23		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegisterSSRej_01(TCV_InvkId))))		
24		(TCV_Res := OO_SSresultCHK(C_RegCF))			
25	L_0579	[TCV_Res]		(P)	
26		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
27	L_0580	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
28		+PostMainLinkRel(TCV_chTch)			
29	L_0581	[NOT TCV_Res]		(F)	
30		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
31	L_0582	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
32		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate a registration of call forwarding service for CFB (all asynchronous service).
4. To initiate a registration of call forwarding service for CF (all facsimile).

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_2_1

Group : SS/

Purpose : 1) To check that the MS correctly requests supplementary service transaction for erasure of call forwarding in CHANNEL REQUEST message.

2) To check that the MS correctly requests supplementary service transaction for erasure of call forwarding in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the EraseSS operation with the expected parameter values for erasure of call forwarding.

4) To check that upon receipt of the result of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for :
a) CFC, for basic service group all facsimile.

b) CFNRc, for all basic service groups.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("##004**13#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("##62#"))			3.
6		+part2			
		part1			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSComponents.eraseSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(EraseSS_01)))		
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(EraseSSRslt_01(TCV_InvkId))))		4.
16		+Checktree(C_ErsCFC)			
		part2			
17		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
20		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
23		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_02), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSC omponents.eraseSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(EraseSS_02)))		
25		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(EraseSSRslt_02(TCV_InvkId))))		5.
26		+Checktree(C_ErsCFNRc)			
		Checktree(par : INTEGER)			
27		(TCV_Res := OO_SSresultCHK(par))			
28	L_0583	[TCV_Res]		(P)	6.
29		+PostMainLinkRel(TCV_ch)			
30	L_0584	[NOT TCV_Res]		(F)	7.
31		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate an EraseSS operation of call forwarding service for CFC (all facsimile).
3. To initiate an EraseSS operation of call forwarding service for CFNRc (all basic services).
4. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. The user indication is correct.
7. The user indication is wrong.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_2_2

Group : SS/

Purpose : 1) To check that the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of erasure of call forwarding, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the EraseSS operation with the expected parameter values for erasure of call forwarding.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

These checks are performed with a call transaction already established for :
a) CFU, for speech, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "Teleservice not provisionned".

b) CFNRy, for all facsimile, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoke_problem) where invoke_problem is "resource limitation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("##21**11#"))			3.
7		+part1			
8		(TCV_Null := OO_InitSS("##61**13#"))			4.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+part2			
		part1			
10		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
12		+localtree			
		localtree			
13		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_03), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSComponents.eraseSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(EraseSS_03)))		
14		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(EraseSSErr_01(TCV_InvkId))))		
15		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
16	L_0585	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
		part2			
17		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
18		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
19		+localtree1			
		localtree1			
20		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_04), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSComponents.eraseSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(EraseSS_04)))		
21		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(EraseSSRej_01(TCV_InvkId))))		
22		(TCV_Res := OO_SSresultCHK(C_ErsCFNRy))			
23	L_0586	[TCV_Res]		(P)	
24		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25	L_0587	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
26		+PostMainLinkRel(TCV_chTch)			
27	L_0588	[NOT TCV_Res]		(F)	
28		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate an erasure of call forwarding service for CFU (speech).
4. To initiate an erasure of call forwarding service for CFNRy (all facsimile).

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_3

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for activation of call forwarding in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for activation of call forwarding in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the ActivateSS operation with the expected parameter values for activation of call forwarding.

4) To check that upon receipt of the result of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for :
a) CF, for basic service group "all synchronous services".

b) CFU, for all basic service groups.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("*002**22#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("*21#"))			3.
6		+part2			
		part1			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_01)))		
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ActivateSSRslt_01(TCV_InvkId))))		
16		+Checktree(C_ActCF)			
		part2			
17		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
20		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
23		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_02), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateS SComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_02)))		
25		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ActivateSSRslt_02(TCV_InvkId))))		5.
26		+Checktree(C_ActCFU)			
		Checktree(par : INTEGER)			
27		(TCV_Res := OO_SSresultCHK(par))			6.
28	L_0589	[TCV_Res]		(P)	
29		+PostMainLinkRel(TCV_ch)			
30	L_0590	[NOT TCV_Res]		(F)	
31		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate an ActivateSS operation of call forwarding service for CF (all synchronous services).
3. To initiate an ActivateSS operation of call forwarding service for CFU (all basic services).
4. To return the ReturnResult of SSoperation by FACILITY message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. To check whether the user indication is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_4

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for deactivation of call forwarding in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for deactivation of call forwarding in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the DeactivateSS operation with the expected parameter values for deactivation of call forwarding.

4) To check that upon receipt of the result of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for :
a) CFC, for basic service group speech.

b) CFNRc, for basic service group all facsimile.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("#004**11#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("#62**13#"))			3.
6		+part2			
		part1			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSSComponents.deactivateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(DeactivateSS_01)))		
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(DeactivateSSRslt_01(TCV_InvkId))))		
16		+Checktree(C_DeactCFC)			
		part2			
17		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
20		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
23		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_02), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(DeactivateSS_02)))		
25		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(DeactivateSSRslt_02(TCV_InvkId))))		5.
26		+Checktree(C_DeactCFNRc)			
		Checktree(par : INTEGER)			
27		(TCV_Res := OO_SSresultCHK(par))			6.
28	L_059 1	[TCV_Res]		(P)	
29		+PostMainLinkRel(TCV_ch)			
30	L_059 2	[NOT TCV_Res]		(F)	
31		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate a DeactivateSS operation of call forwarding service for CFC (speech).
3. To initiate a DeactivateSS operation of call forwarding service for CFNRc (all facsimile).
4. To return the ReturnResult of SSoperation by FACILITY message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. To check whether the user indication is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_6_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for interrogation of a specific call forwarding in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for interrogation of call forwarding in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the InterrogateSS operation with the expected parameter values for interrogation of call forwarding.

4) To check that upon receipt of the result of the operation (in a RELEASE COMPLETE message), the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for :
a) CFB, for all basic service groups.
b) CFC, for basic service group speech.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("*#67#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("*#61**11#"))			3.
6		+part2			
		part1			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_01)))		
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(InterrogateSSRslt_01(TCV_InvkId))))		
16		+Checktree(C_InterrogCFB)			
		part2			
17		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
19		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
20		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
23		+localtree1			
		localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_02), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_02)))		
25		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(InterrogateSSRslt_02(TCV_InvkId))))		5.
26		+Checktree(C_InterrogCFC)			
		Checktree(par : INTEGER)			
27		(TCV_Res := OO_SSresultCHK(par))			6.
28	L_0593	[TCV_Res]		(P)	
29		+PostMainLinkRel(TCV_ch)			
30	L_0594	[NOT TCV_Res]		(F)	
31		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate a InterrogateSS operation of call forwarding service for CFB (all basice services).
3. To initiate a InterrogateSS operation of call forwarding service for CFNRy (Speech).
4. To return the ReturnResult of SSoperation by FACILITY message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. To check whether the user indication is correct.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_6_2

Group : SS/

Purpose : 1) To check that the MS correctly requests the establishmnt of a parallel MM transaction for supplementary service transaction of interrogation of a specific call forwarding service, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the InterrogateSS operation with the expected parameter values for interrogation of call forwarding.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

These checks are performed with a call transaction already established for :
a) CFNRc, for all basic service group, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "SS not available".

b) CFB, for all facsimile, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoke_problem) where invoke_problem is "resource limitation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("*#62#"))			3.
7		+part1			
8		(TCV_Null := OO_InitSS("*#67**13#"))			4.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+part2			
		part1			
10		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
12		+localtree			
		localtree			
13		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_03), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_03)))		
14		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(InterrogateSSErr_01(TCV_InvkId))))		
15		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
16	L_0595	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
		part2			
17		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
18		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
19		+localtree1			
		localtree1			
20		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_04), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_04)))		
21		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(InterrogateSSRej_01(TCV_InvkId))))		
22		+Checktree(C_InterrogCFB)			
		Checktree(par : INTEGER)			
23		(TCV_Res := OO_SSresultCHK(par))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24	L_0596	[TCV_Res]		(P)	
25		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
26	L_0597	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
27		+PostMainLinkRel(TCV_chTch)			
28	L_0598	[NOT TCV_Res]		(F)	
29		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate an interrogation of call forwarding service for CFNRc (all basic services).
4. To initiate an interrogation of call forwarding service for CFB (all facsimile).

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_7_1_1

Group : SS/

Purpose : 1) To check that, in state U7 or U10, upon receipt of a FACILITY message notifying an incoming call, the MS shall provide the appropriate user indication (which is to be described by the manufacturer).

2) To check that when the notification of incoming call is received while the MS is in CC state U7 and U10 of another incoming call, it has no effect on its state.

These checks are performed in the case of CFB.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			Paging
6	body	L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
7		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
8		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		
9		+ltree_connectTch			
		ltree_connectTch			
10		[TSPX_Immconn]			
11		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
12		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+ltree_U10			
14		[NOT TSPX_Immconn]			
15		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
16		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
17		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIEtsnd(NotificationSS_01)))		2.
18		(TCV_Res := OO_SSresultCHK(C_NotifyCFB))			
19		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TI_02))		
20	L_0599	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TI_01, C_U7))	(P)	U7
21		(TCV_Null := OO_HookOff())			
22		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
23	L_0600	[TCV_Res]		(P)	Notified
24		+ltree_U10			
25	L_0601	[NOT TCV_Res]		(F)	Not notified
26		+ltree_U10			
		ltree_U10			
27		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
28		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIEtsnd(NotificationSS_01)))		3.
29		(TCV_Res := OO_SSresultCHK(C_NotifyCFB))			
30		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TI_02))		
31	L_0602	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TI_01, C_U10))	(P)	U10
32		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
33		+PostMainLinkRel(TCV_chTch)			
34	L_0603	[TCV_Res]		(P)	Notified
35	L_0604	[NOT TCV_Res]		(F)	Not notified

Detailed Comments : 1. To setup physical channels for BCCH, CCCH, SDCCH4 and full rate traffic channels.
2. To send a FACILITY message containing NotifySS invocation while the MS is in U7 state.
3. To send a FACILITY message containing NotifySS invocation while the MS is in U10 state.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_7_1_2

Group : SS/

Purpose : 1) To check that when an outgoing call is being established, if the ALERTING message is received with the facility information element containing an SS notification, the MS correctly reaches CC state U4. This is tested for CFU.

2) As an outgoing call is being established, if the ALERTING message is received with the facility information element containing an SS notification, the MS provides the appropriate user indication (which is to be described by the manufacturer). This is tested for CFU.

3) As an outgoing call is being established, if the CONNECT message is received with the facility information element containing an SS notification, the MS normally sends a CONNECT ACK message and enter CC state U10. This is tested for CFC.

4) As an outgoing call is being established, if the CONNECT message is received with the facility information element containaining an SS notification (for CFU or CFC), the MS provides the appropriate user indication (which is to be described by the manufacturer). This is tested for CFC.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+InitCall(TCV_Service)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
9		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
12		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
13		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
14		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
15		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
16		+continue			
		continue			
17		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_04(TCV_TI, facilityIEtsndiei(NotificationSS_02)))		2.
18		(TCV_Res := OO_SSresultCHK(C_NotifyCFU))			
19	L_0605	[TCV_Res]		(P)	
20		+localtree			
21	L_0606	[NOT TCV_Res]		(F)	
22		+localtree			
		localtree			
23		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
24	L_0607	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U4))	(P)	
25		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_05(TCV_TI, facilityIEtsndiei(NotificationSS_03)))		3.
26		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
27		(TCV_Res := OO_SSresultCHK(C_NotifyCFC))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
28	L_0608	[TCV_Res]		(P)	
29		+localtree1			
30	L_0609	[NOT TCV_Res]		(F)	
31		+localtree1			
		localtree1			
32		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
33	L_0610	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
34		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
35		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To setup traffic channel.
2. To send an ALERTING message containing NotifySS invocation while the MS is in U4 state.
3. To send a CONNECT message containing NotifySS invocation while the MS is in U10 state.

Test Case Dynamic Behaviour

Test Case Name : TC_31_2_1_7_2

Group : SS/

Purpose : 1) To check that, upon receipt of the SETUP message containing a notification indication that the call is a forwarded one, the MS correctly continues call establishment and enters CC state U6.

2) Upon receipt of the SETUP message containing a notification indication that the call is a forwarded one, the MS provides the appropriate user indication (which is to be described by the manufacturer).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcE, TSPX_MTChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
6		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
7		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
8		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
9		ACTIVATE(OtherEventsFail)			Restore Normal default
10		(TCV_Setup_mt.fie := facilityIEtsndiei(NotificationSS_04))			
11		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		L!DL_DatRqCcstEnq	CCStESnd(TCV_ch, CCStatusEq_01(TI_02))		
13	L_0611	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TI_01, C_U6))	(P)	
14		(TCV_Res := OO_SSresultCHK(C_NotifyCFNRc))			
15	L_0612	[TCV_Res]		(P)	
16		+localtree			
17	L_0613	[NOT TCV_Res]		(F)	
18		+localtree			
		localtree			
19		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_08(TI_02))		
20		+PostMainLinkRel(TCV_ch)			
Detailed Comments : 1. To setup a physical channel as BCCH, CCCH and SDCCH4. 2. To send a setup message containing facility IE (notification, forwarded call).					

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_1

Group : SS/

Purpose :

1) To verify that when the MS receives the AOCC parameters in a Facility IE which is contained in the CONNECT message and when a TCH has already been assigned, the MS returns a FACILITY message containing the acknowledgement within 1 second.

2) To verify that when the MS receives the AOCC parameters in a Facility IE which is contained in a CONNECT message and when a TCH has already been assigned, the MS stores the correct value in the ACM field of the SIM.

3) To verify that the when the call has no volume related component the MS ignores non−zero AOCC e5, e6 parameters sent to it.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		(TCV_Null := OO_ACMReading())			1.
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+execution1			
7		+execution2			
8		+execution3			
9		+execution4			
10		+execution5			
		execution1			
11		+EstablishFacMO(90000, FwdChAdvSS_01, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
12		+localtree("43")			
		execution2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		+EstablishFacMO(90000, FwdChAdvSS_02, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
14		+localtree("100")			
		execution3			
15		+EstablishFacMO(90000, FwdChAdvSS_03, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
16		+localtree("2000")			
		execution4			
17		+EstablishFacMO(90000, FwdChAdvSS_04, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
18		+localtree("89 or 90")			
		execution5			
19		+EstablishFacMO(90000, FwdChAdvSS_05, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
20		+localtree("50 or 62.5")			
		localtree(val : IA5String)			
21		?TIMEOUT T_dly			
22		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
23		L?DL_DatInRel	ReleaseRcv(Release_02)		
24		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
25		(TCV_Res := OO_ACMIncCHK(val))			
26		+PostMainLinkRel(TCV_chTch)			
27	L_0614	[TCV_Res]		(P)	
28	L_0615	[NOT TCV_Res]		(F)	

Detailed Comments : 1. To read and note the value of ACM on SIM at the begining of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To check whether the increment of the value of ACM on SIM is the expected value.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_2

Group : SS/

Purpose : 1) To verify that when the MS receives certain AOCC e−parameters in a Facility IE which is contained in a FACILITY message sent after the CONNECT message and when a TCH has already been assigned, the MS returns a FACILITY message containing the acknowledgement within 1 second.

2) To verify that when the MS receives the AOCC parameters in a Facility IE which is contained in a FACILITY message and when a TCH has already been assigned, the MS stores the correct value in the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1800)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		(TCV_Null := OO_ACMReading())			1.
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6	body	+execution(FwdChAdvSS_06, "0")			
7		+execution(FwdChAdvSS_07, "100")			
8		+execution(FwdChAdvSS_08, "43")			
9		+execution(FwdChAdvSS_09, "89 or 90")			
10		+execution(FwdChAdvSS_10, "50 or 62.5")			
		execution(comp : Component_T; para : IA5String)			
11		+PreEnterCCstateU8_34_SS			
12		L!DL_DatRqFac START T_dly(90000), START T_dly1(10000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIEtsnd(comp)))		2.
13	L_0616	L?DL_DatInFac (TCV_Fn1 := DL_DatInFac.fn) CANCEL T_dly1	FacilityRcv(FacilityPdu_26(TI_01, facilityIErcv(FwdChAdvRslt_01)))	(P)	6.
14		(TCV_Fn := OM_ReturnFn(TCV_chTch))			5.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
16		+Check_Time(C_T_Wait_FAC)			
17		+post(para)			
18	L_0617	?TIMEOUT T_dly1		(F)	3.
19		+PostLinkRelEnd(TCV_chTch)			
		post(para : IA5String)			
20		?TIMEOUT T_dly			
21		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
22		L?DL_DatInRel	ReleaseRcv(Release_02)		
23		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
24		+PostMainLinkRel(TCV_chTch)			
25		(TCV_Res := OO_ACMIncCHK(para))			
26	L_0618	[TCV_Res]		(P)	4.
27	L_0619	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The expected FACILITY message does not return, fail.
4. To check whether the increment of the value of ACM on SIM is correct.
5. Get the first frame number for transmitting of FACILITY message containing AOC information.
6. TCV_Fn1 contains the first frame number of the received FACILITY message with AOC acknowledge from mobile.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_5

Group : SS/

Purpose :
1) To verify that when the MS receives new AOCC parameters mid−way through a call in a Facility IE which is contained within a FACILITY message the MS returns a FACILITY message containing the acknowledgement within 1 second.

2) To verify that when the MS receives new charging information mid−way through a call in the form of a Facility IE contained within a FACILITY message the MS correctly indicates the total charge considering both sets of charging information

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcJ, TSPX_MOChRateJ)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		(TCV_Null := OO_ACMReading())			1.
5		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
6		+ltree_body			
		ltree_body			
7		+InitCall(TCV_Service)			
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
9		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
10		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
14		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
15		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
16		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
17		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
18		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
19		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
20		+continue			
		continue			
21		+localtree(FwdChAdvSS_11, 80000)			
22		+localtree1(FwdChAdvSS_12, 100000)			
23		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
24		L?DL_DatInRel	ReleaseRcv(Release_02)		
25		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
26		+PostMainLinkRel(TCV_chTch)			
27		+post			
		localtree(comp : Component_T; t : INTEGER)			
28		L!DL_DatRqFac START T_dly(t), START T_dly1(10000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facilityIEtsnd(comp)))		2.
29		+AOC_CHK_FAC(TCV_TI0)			
30		?TIMEOUT T_dly			
		localtree1(comp:Component_T; t:INTEGER)			
31		L!DL_DatRqFac START T_dly(t), START T_dly1(10000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facilityIEtsnd(comp)))		2.
32	L_1046	L?DL_DatInFac (TCV_Fn := OM_ReturnFn(TCV_chTch), TCV_Fn1 := DL_DatInFac.fn) CANCEL T_dly1	FacilityRcv(FacilityPdu_26(TCV_TI0, facilityIErcv(FwdChAdvRslt_01)))	(P)	
33		+Check_Time(C_T_Wait_FAC)			
34		?TIMEOUT T_dly			
35	L_1047	?TIMEOUT T_dly1		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
36		CANCEL T_dly			
37		+PostLinkRelEnd(TCV_chTch)			
		post			
38		(TCV_Res := OO_ACMIncCHK("65"))			3.
39	L_0620	[TCV_Res]		(P)	
40	L_0621	[NOT TCV_Res]		(F)	

Detailed Comments : 1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send second CAI.
3. To check whether the increment of the value of ACM on SIM is 65.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_6

Group : SS/

Purpose : 1) To verify that when the MS receives a Facility IE in which certain e−parameters are set to zero the total charge accumulated is the same as that when the same e−parameters are completely omitted from the Facility IE.

2) To verify the operation of a shortened channel release procedure where the SS does not send DISCONNECT but only the RELEASE COMPLETE and CHANNEL RELEASE messages or just the CHANNEL RELEASE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6		+execution1			
7		+execution2			
8		+execution3			
		execution1			
9		+start(FwdChAdvSS_13)			
10		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
11		L?DL_DatInRel	ReleaseRcv(Release_02)		
12		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
13		+localtree			
		execution2			
14		+start(FwdChAdvSS_14)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
16		+localtree			
		execution3			
17		+start(FwdChAdvSS_14)			
18		+localtree			
		localtree			
19		+PostMainLinkRel(TCV_chTch)			
20		(TCV_Res := OO_ACMIncCHK("20"))			4.
21	L_0622	[TCV_Res]		(P)	
22	L_0623	[NOT TCV_Res]		(F)	
		start(comp : Component_T)			
23		+InitCall(TCV_Service)			
24		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
25		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
26		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
27		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
28		ACTIVATE(OtherEventsFail)			Restore Normal default
29		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
30		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
31		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
32		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
33		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
34		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
35		L!DL_DatRqFac START T_dly(90000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facilityIEtsnd(comp)))		2.
36		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37		+branch			
38		?TIMEOUT T_dly			
		branch			
39	L_0624	L?DL_DatInFac	FacilityRcv(FacilityPdu_26(TCV_TI0, facilityIErcv(FwdChAdvRslt_01)))	(P)	3.
40		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
41		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
42	L_0625	L?DL_DatInFac	FacilityRcv(FacilityPdu_26(TCV_TI0, facilityIErcv(FwdChAdvRslt_01)))	(P)	3.

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The expected FACILITY message received, pass.
4. To check whether the increment of the value of ACM on SIM is 20.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_7

Group : SS/

Purpose :
1) To verify that when the MS invokes a Call Hold call and hence receives Facility IEs containing AOCC e−parameters for each chargeable call the MS returns a FACILITY message containing the AOCC acknowledgement within 1 second of transmission of each set of e−parameters.

2) To verify that when the MS invokes a Call Hold call and hence receives Facility IEs containing CAI elements for each chargeable call the CCM records the sum of all the charges for the services currently being used and hence that the ME inserts the correct charge in the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6		+EstablishFacMO(180000, FwdChAdvSS_15, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
7		+localtree			
		localtree			
8		+InitCall(TCV_Service)			Place the first call on hold
9		ACTIVATE (DTMFsig, OtherEventsFail)			Accept DTMF signalling
10		L?DL_DatInHold	HoldRcv(Holdpdu_01(TCV_TI0))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11		ACTIVATE (OtherEventsFail)			
12		L!DL_DatRqHoldAck	HoldAckSnd(TCV_chTch, HoldAckpdu_01(TCV_TI))		
13		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_01)		
14		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
15		+SetupRcvMo2(SetupInd_01)			
16		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
17		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI2))		
18		L!DL_DatRqConn START T_dly2(90000) , START T_dly1(10000)	ConnSnd(TCV_chTch, Connect_05(TCV_TI2, facilityIEtsndiei(FwdChAdvSS_16)))		3.
19		+AOC_CHK_FAC(TCV_TI1)			
20		+localtree1			
		localtree1			
21		?TIMEOUT T_dly2			
22		+releasecall(TCV_TI2)			4.
23		?TIMEOUT T_dly			
24		+releasecall(TCV_TI)			5.
25		+releaselink			
		releasecall(ti : TI)			
26		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(ti, Cause_01, ProgInd_omit, UuInfo_omit))		
27		L?DL_DatInRel	ReleaseRcv(Release_02)		
28		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(ti))		
		releaselink			
29		+PostMainLinkRel(TCV_chTch)			
30		(TCV_Res := OO_ACMIncCHK("54"))			6.
31	L_0626	[TCV_Res]		(P)	
32	L_0627	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To send second CAI.
4. To release call C.
5. To release call B.
6. To check whether the increment of the ACM value on SIM is 54.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_1_8

Group : SS/

Purpose :
1) To verify that when the MS invokes a Multi−party call and hence receives Facility IEs containing AOCC e−parameters for each chargeable call the MS returns a FACILITY message containing the AOCC acknowledgement within 1 second of transmission of each set of e−parameters.

2) To verify that when the MS originates a Multi−party call and hence receives Facility IEs containing CAI elements for each chargeable call the CCM records the sum of all the charges for the services currently being used and hence the ME inserts the correct charge in the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6		+EstablishFacMO(180000, FwdChAdvSS_17, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
7		+localtree			
		localtree			
8		+InitCall(TCV_Service)			3.
9		ACTIVATE (DTMFsig, OtherEventsFail)			Accept DTMF signalling
10		L?DL_DatInHold	HoldRcv(Holdpdu_01(TCV_TI0))		
11		ACTIVATE (OtherEventsFail)			Restore Normal Defaults

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		L!DL_DatRqHoldAck	HoldAckSnd(TCV_chTch, HoldAckpdu_01(TCV_TI))		
13		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_01)		
14		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
15		+SetupRcvMo2(SetupInd_01)			
16		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
17		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI2))		
18		L!DL_DatRqConn START T_dly2(90000) , START T_dly1(10000)	ConnSnd(TCV_chTch, Connect_05(TCV_TI2, facilityIEtsndiei(FwdChAdvSS_18)))		4.
19		+AOC_CHK_FAC(TCV_TI1)			
20		+localtree1			
		localtree1			
21		(TCV_Null := OO_MptyCall())			5.
22		ACTIVATE (DTMFsig, OtherEventsFail)			Accept DTMF signalling
23		L?DL_DatInFac (TCV_Comp := DL_DatInFac.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, BldMptySS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSComponents.registerSS_InvokeComp.invokeID, 1), TCV_TI3 := DL_DatInFac.msg.ti, TCV_TI3.ti_f := '1'B)	FacilityRcv(FacilityPdu_26(TCV_TI0, facilityIErcv(BldMptySS_01)))		
24		+ltree_release			
25		L?DL_DatInFac (TCV_Comp := DL_DatInFac.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, BldMptySS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSComponents.registerSS_InvokeComp.invokeID, 1), TCV_TI3 := DL_DatInFac.msg.ti, TCV_TI3.ti_f := '1'B)	FacilityRcv(FacilityPdu_26(TCV_TI1, facilityIErcv(BldMptySS_01)))		
26		+ltree_release			
		ltree_release			
27		ACTIVATE (OtherEventsFail)			Restore Normal Defaults
28		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI3, facilityIEtsnd(BuildMptySSRslt_01(TCV_InvkId))))		
29		?TIMEOUT T_dly2			
30		+releasecall(TCV_TI2)			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		?TIMEOUT T_dly			
32		+releasecall(TCV_TI)			
33		+releaselink			
		releasecall(ti: TI)			
34		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(ti, Cause_01, ProgInd_omit, UuInfo_omit))		
35		L?DL_DatInRel	ReleaseRcv(Release_02)		
36		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(ti))		
		releaselink			
37		+PostMainLinkRel(TCV_chTch)			
38		(TCV_Res := OO_ACMIncCHK("134"))			6.
39	L_0628	[TCV_Res]		(P)	
40	L_0629	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To read and hote the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To hold the first call and make a second call.
4. To send CAI for the second call.
5. To build the multi party call.
6. To check whether the increment of the value of ACM on SIM is 134.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_2_1

Group : SS/

Purpose : 1) To verify that when the SIM is removed from the ME during an active AOCC call the ME immediately terminates the call.

2) To verify that when the SIM is removed during an active AOCC call the ME has written the total charge up to that point in the call to the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6	body	+EstablishFacMO(90000, FwdChAdvSS_19, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
7		+localtree			
		localtree			
8		?TIMEOUT T_dly			
9		START T_dly(60000)			
10		(TCV_Null := OO_SIMRmv())			3.
11		L?DL_DatInDisc CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))		
12		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_03(TCV_TI))		
13	L_0630	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	
14		+PostMainLinkRel(TCV_chTch)			
15		+localtree1			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16	L_0631	L?DL_DatInRelCmp CANCEL T_dly	RelComRcv(ReleaseCmp_03(TCV_TI0))	(P)	
17		+PostMainLinkRel(TCV_chTch)			
18		+localtree1			
19	L_0632	L?DL_RelIn CANCEL T_dly	DLRelInd_01	(P)	
20		+localtree1			
21	L_0633	?TIMEOUT T_dly		(F)	
22		+PostLinkRelEnd(TCV_chTch)			
		localtree1			
23		(TCV_Res := OO_ACMIncCHK("30"))			4.
24	L_0634	[TCV_Res]		(P)	
25	L_0635	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To remove the SIM without power off and 90 seconds after CAI sent.
4. To check whether the increment of the value of ACM on SIM is 30.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_2_2

Group : SS/

Purpose : To verify that when the power supply of the MS is removed during an active AOCC call the ME has written the total charge up to that point in the call to the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6		+execution1			
7		+execution2			
		execution1			
8		+main			
9		(TCV_Null := OO_SwitchOff())			3.
10		(TCV_Res := OO_ACMIncCHK("30"))			4.
11	L_0636	[TCV_Res]		(P)	
12	L_0637	[NOT TCV_Res]		(F)	
		execution2			
13		(TCV_Null := OO_SwitchOn())			5.
14		START T_dly(20000)			
15		?TIMEOUT T_dly			
16		+main			
17		(TCV_Null := OO_PowerDown())			6.
18		(TCV_Res := OO_ACMIncCHK("30"))			4.
19	L_0638	[TCV_Res]		(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20	L_0639	[NOT TCV_Res] main		(F)	
21		+EstablishFacMO(90000, FwdChAdvSS_19, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
22		?TIMEOUT T_dly			

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To switch off the MS 90 seconds after CAI sent.
4. To check whether the increment of the value of ACM on SIM is 30.
5. To switch on the MS and wait for the MS back to idle state.
6. To remove battery pack 90 seconds after CAI sent.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_2_3

Group : SS/

Purpose : To verify that when the MS goes out of radio coverage area and an active call is dropped the ME has written the total charge up to that point in the call to the ACM field of the SIM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMReading())			1.
6		+EstablishFacMO(90000, FwdChAdvSS_19, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
7		?TIMEOUT T_dly			
8		(TCV_Null := OM_StopCell(C_CellA))			3.
9		(TCV_Res := OO_ACMIncCHK("30"))			4.
10	L_0640	[TCV_Res]		(P)	
11	L_0641	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To switch off the cell A 90 seconds after CAI sent.
4. To check whether the increment of the value of ACM on SIM is 30.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_2_4

Group : SS/

Purpose : 1) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum value, the ACMM, any outgoing calls in progress for which a non−zero CAI exists are terminated by the ME with cause value #68, once the chargeable interval determined by the CAI has elapsed, with an appropriate indication given to the user.

2) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum limit, the ACMM, the making of non−emergency calls is inhibited

3) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum limit, the ACMM, the making of emergency calls is uninhibited

Configuration :

Default : OtherEventsFail

Comments : The ACM is reset to zero and the ACMmax is set to 2 units before starting the test

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMO(TSPX_MOBscSvcI, TSPX_MOChRateI)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMSetting())			1.
6		+execution1			
7		+execution2			
8		+execution3			
		execution1			
9		+EstablishFacMO(100000, FwdChAdvSS_20, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
10		L?DL_DatInDisc READTIMER T_dly(TCV_Time) , CANCEL T_dly	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_68))		3.
11	L_0642	[(88000 <= TCV_Time) AND (TCV_Time <= 92000)]		(P)	4.
12		+localtree1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13	L_0643	[(88000 > TCV_Time) OR (TCV_Time > 92000)]		(F)	
14		+localtree1			
		localtree1			
15		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TCV_TI))		
16		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))		
17		+PostMainLinkRel(TCV_chTch)			
18		(TCV_Res := OO_ACMIncCHK("2"))			5.
19	L_0644	[TCV_Res]		(P)	
20	L_0645	[NOT TCV_Res]		(F)	
		execution2			
21		+InitCall(TCV_Service)			
22		START T_dly(5000)			
23	L_0646	?TIMEOUT T_dly		(P)	
24	L_0647	L?DL_RacInChRq CANCEL T_dly	ChReq(ChRequest_02)	(F)	
		execution3			
25		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
26		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
27		+InitCall(C_EmgCall)			6.
28		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)		
29		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
30		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
31		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
32		ACTIVATE(OtherEventsFail)			Restore Normal default
33		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
34		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35		+continue1			
		continue1			
36		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
37		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
38		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
39		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
40		L!DL_DatRqConn START T_dly1(10000), START T_dly(120000)	ConnSnd(TCV_chTch, Connect_05(TCV_TI, facilityIEtsndiei(FwdChAdvSS_21)))		7.
41		+AOC_CHK_FAC(TCV_TI0)			
42		?TIMEOUT T_dly			9.
43		(TCV_Null := OO_TermCall())			
44		+localtree2			
		localtree2			
45	L_0648	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))	(P)	
46		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TCV_TI))		
47		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TCV_TI0))		
48		+PostMainLinkRel(TCV_chTch)			
49		(TCV_Res := OO_ACMIncCHK("0"))			8.
50	L_0649	[TCV_Res]		(P)	
51	L_0650	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To reset the ACM = 0 and set the ACMmax to 2.
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The call is terminated when the ACM reaches the ACMmax (cause value #68).
4. The time duration is 90 +− 2 seconds, pass.
5. To check whether the ACM increment is 2.
6. To make an emergency call.
7. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
8. To check whether the value of ACM is still 2.
9. The time duration is 120 seconds.

Test Case Dynamic Behaviour

Test Case Name : TC_31_6_2_5

Group : SS/

Purpose :
1) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum value, the ACMM, any mobile terminating calls in progress for which a non−zero CAI exists are terminated by the ME, once the chargeable interval determinined by the CAI has elapsed, with an appropriate indication given to the user.

2) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum value, the ACMM, and an incoming call is received for which subsequently a non−zero CAI is received, then the call is terminated by the ME with an appropriate indication given to the user.

3) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum limit, the ACMM, the receiving of calls for which the CAI is zero is uninhibited.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(600)			
2		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_Null := OO_ACMSetting())			1.
6	body	+execution1			
7		+execution2			
8		+execution3			
		execution1			
9		+init			
10		+branchA(FwdChAdvSS_20)			
11		+branchF			
12		+TimerCheck			
13		+step20("2")			5.
		execution2			
14		+init			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+branchB			
16		+branchC			
17		+branchG			
18		+step20("0")			8.
19		+branchDorE			
20		+branchG			
21		+step20("0")			8.
		execution3			
22		+init			
23		+branchA(FwdChAdvSS_21)			
24		+branchH			
25		+step20("0")			8.
		init			
26		+PreEnterCCstateU8_34_SS			
27		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
		branchA(comp : Component_T)			
28		L!DL_DatRqFac START T_dly(120000)	FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIEtsnd(comp)))		2., 7.
29	L_0651	L?DL_DatInFac	FacilityRcv(FacilityPdu_26(TI_01, facilityIErcv(FwdChAdvRslt_01)))	(P)	
		branchB			
30		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIEtsnd(FwdChAdvSS_20)))		2.
		branchC			
31	L_0652	L?DL_DatInFac	FacilityRcv(FacilityPdu_26(TI_01, facilityIErcv(FwdChAdvRslt_01)))	(P)	
32		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_68))		6.
		branchDorE			
33		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_68))		6.
34		START T_dly1(10000)			
35	L_1072	?TIMEOUT T_dly1		(P)	branch E
36	L_0653	L?DL_DatInFac	FacilityRcv(FacilityPdu_26(TI_01, facilityIErcv(FwdChAdvRslt_01)))	(P)	branch D
		branchF			
37		L?DL_DatInDisc READTIMER T_dly(TCV_Time) , CANCEL T_dly, CANCEL T_dly1	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_68))		3.
38		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TI_02))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
39		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
40		+PostMainLinkRel(TCV_chTch)			
		branchG			
41		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TI_02))		
42		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
43		+PostMainLinkRel(TCV_chTch)			
		branchH			
44		?TIMEOUT T_dly			9.
45		(TCV_Null := OO_TermCall())			
46		L?DL_DatInDisc (TCV_Fn1 := DL_DatInDisc.fn)	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))		3.
47		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TI_02))		
48		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
49		+PostMainLinkRel(TCV_chTch)			
		step20(val : IA5String)			
50		(TCV_Res := OO_ACMIncCHK(val))			
51	L_0654	[TCV_Res]		(P)	
52	L_0655	[NOT TCV_Res]		(F)	
		TimerCheck			
53	L_0656	[(88000 <= TCV_Time) AND (TCV_Time <= 92000)]		(P)	4.
54	L_0657	[(88000 > TCV_Time) OR (TCV_Time > 92000)]		(F)	4.

Detailed Comments :
1. To reset the ACM = 0 and set the ACMmax to 2.
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The call is terminated with Cause Value #68 when the ACM reaches the ACMmax.
4. To check whether the time duration is 90 +− 2 seconds.
5. To check whether the ACM increment is 2.
6. The call is unsuccessful− call terminated with Cause Value #68.
7. To send Facility IE of ForwardChargeAdvice with zero CAI.
8. To check whether the value of ACM is still 2.
9. The time duration is 120 seconds.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_1_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for registration of a password for all call restriction services in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for registration of a password for all call restriction services in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the RegisterPassword operation with the expected parameter values for registration of a password for all barring services.

4) To check that when the mobile subscriber wants to register a new password, the old password the new and the repeat of the new password shall be entered into the MS before the MS sends to the network a CHANNEL REQUEST..

5) To check that the MS is able to send a password by sending a FACILITY message in accordance to the user request (MMI actions).

6) To check that upon receipt of the result of the procedure, contained in RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the manufacturer).

These checks are done for:
all barring services, the result of the operation being sent in a RELEASE COMPLETE message

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("**03*330*1234*9876*9876#"))			2.
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
7		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
10		+continue continue			
11		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegPasswdSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPasswordComponents.registerPassword_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegPasswdSS_01)))		
12		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
13		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))		3
14		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_02(TCV_InvkId))))		
15		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_02)))		4
16		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_03(TCV_InvkId))))		
17	L_0658	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_02)))	(P)	5

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(RegPasswdSSRslt_01(TCV_InvkId))))		
19		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To set up physical channel as BCCH, CCCH and SDCCH4.
2. To initiate the Registration of password supplementary service.
3. Received the old password.
4. Received the new password.
5. Received the repeat of new password.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_1_2_1

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of registration of a password for all call restriction services, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the RegisterPassword operation with the expected parameter values for registration of a password for all call restriction services.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for:
all call restriction services, the RELEASE COMPLETE message being sent at the beginning of the procedure with a facility IE containing a return_error(error) where error is "SS subscription violation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("**03*330*1234*9876*9877#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		+localtree localtree			
10	L_0659	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegPasswdSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPasswordComponents.registerPassword_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegPasswdSS_01)))	(P)	
11		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegPasswdSSErr_01(TCV_InvkId))))		4.
12		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
13	L_0660	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
14		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To set up traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate RegisterPassword supplementary service.
4. To reject the RegisterPassword supplementary service invocation.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_1_2_2

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of registration of a password for all call restriction services, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the RegisterPassword operation with the expected parameter values for registration of a password for all call restriction services.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for :
all call restriction services, the RELEASE COMPLETE message being sent at the end of the procedure with a facility IE containing a return_error(error) where error is "NegativePasswordCheck".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6	body	(TCV_Null := OO_InitSS("**03*330*1234*9876*9876#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+continue			
		continue			
10		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegPasswdSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPasswordComponents.registerPassword_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegPasswdSS_01)))		
11		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
12		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_01)))		4
13		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegPasswdSSErr_02(TCV_InvkId))))		5.
14		+MMI_indic_chk			
15		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
16	L_0661	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
17		+PostMainLinkRel(TCV_chTch)			
		MMI_indic_chk			
18		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
19	L_0662	[TCV_Res]		(P)	
20	L_0663	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To set up traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the Registration of password supplementary service.
4. Received the wrong password.
5. Negative password check, indefinite form.
6. Check whether the MS provides correct MMI user indication.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_1_2_3

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of registration of a password for all call restriction services, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the RegisterPassword operation with the expected parameter values for registration of a password for all call restriction services.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for :
all call restriction services, the RELEASE COMPLETE message being sent at the end of the procedure with a facility IE containing a return_error(error) where error is "PasswordRegistrationFailure" with diagnostic "new password mismatch".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("**03*330*1234*9876*9877#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		+continue continue			
10		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, RegPasswdSS_01), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPasswordComponents.registerPassword_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(RegPasswdSS_01)))		
11		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
12		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_01)))		4.
13		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_02(TCV_InvkId))))		
14		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_02)))		5.
15		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_03(TCV_InvkId))))		
16		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_03)))		6.
17		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegPasswdSSErr_03(TCV_InvkId))))		7.
18		+MMI_indic_chk			
19		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
20	L_0664	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
21		+PostMainLinkRel(TCV_chTch) MMI_indic_chk			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
23	L_0665	[TCV_Res]		(P)	
24	L_0666	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To set up traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the Registration of password supplementary service.
4. Received the old password.
5. Received the new password.
6. TReceived a different new password.
7. New password mismatch.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_3_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for activation of a specific call restriction service in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for activation of call restriction service in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the ActivateSS operation with the expected parameter values for activation of a specific call restriction service.

4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).

5) To check that the MS is able to send a password by sending a FACILITY message in accordance to the user request (MMI actions).

6) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (which is to be described by the manufacturer).

These checks are done for:
a) BAOC, for basic service group "all synchronous services" the result of the operation being sent in a FACILITY message.
b) BICRoam, for all basic service groups, the result of the operation being sent in a RELEASE COMPLETE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("*33**22#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("*351#"))			3.
6		+part2			
		part1			
7	L_0667	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14	L_0668	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_03), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_03)))	(P)	
15		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		4.
16		(TCV_Null := OO_EnterPswd("1234"))			5.
17	L_0669	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))	(P)	
18		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ActivateSSRslt_03(TCV_InvkId))))		
19		+Checktree(C_ActBOAC)			
20		+PostMainLinkRel(TCV_ch)			
		part2			
21	L_0670	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
22		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
24		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
25		ACTIVATE(OtherEventsFail)			Restore Normal default
26		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
27		+localtree1			
		localtree1			
28	L_0671	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_04), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_04)))	(P)	
29		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		4.
30		+Checktree(C_RegPswd)			
31		(TCV_Null := OO_EnterPswd("1234"))			5.
32		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))		
33		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(ActivateSSRslt_04(TCV_InvkId))))		
34		+Checktree(C_ActBICRoam)			
35		+PostMainLinkRel(TCV_ch)			
		Checktree(par : INTEGER)			
36		(TCV_Res := OO_SSresultCHK(par))			
37	L_0672	[TCV_Res]		(P)	
38	L_0673	[NOT TCV_Res]		(F)	

Detailed Comments :
1. To setup physical channel as BCCH, CCCH and SDCCH4.
2. To initiate Activation for BAOC.
3. To initiate Activation for BICRoam.
4. To send GetPassword invocation to the MS.
5. To enter password at the MMI.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_3_2_1

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of specific call barring service, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the ActivateSS operation with the expected parameter values for specific call barring service.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for :
BOIC, the RELEASE COMPLETE message being sent at the beginning of the procedure with a facility IE containing a return_error(error) where error is "SS subscription violation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcD, TSPX_MOChRateD)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("*331#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree			
10	L_0674	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_05), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_05)))	(P)	
11		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ActivateSSErr_01(TCV_InvkId))))		4.
12		(TCV_Res := OO_SSresultCHK(C_ActBOIC))			
13	L_0675	[TCV_Res]		(P)	5.
14		+localtree1			
15	L_0676	[NOT TCV_Res]		(F)	
16		+localtree1			
		localtree1			
17		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
18	L_0677	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
19		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup traffic channel.
2. To establish a mobile originating call to bring the MS into state U10.
3. To initiate the ActivateSS for BOIC.
4. To send ReturnError for the invocation of ActivateSS.
5. The user indication is correct, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_3_2_2

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of activation of one specific call restriction service, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the ActivateSS operation with the expected parameter values for activation of one specific call restriction service.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for :
BAIC, the RELEASE COMPLETE message being sent at the end of the procedure with a facility IE containing a return_error(error) where error is "NegativePasswordCheck".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("*35#"))			3.
7	L_0678	L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)	(P)	
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree			
10	L_0679	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ActivateSS_06), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSComponents.activateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(ActivateSS_06)))	(P)	
11		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
12		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
13	L_0680	[TCV_Res]		(P)	
14		+localtree1			
15	L_0681	[NOT TCV_Res]		(F)	
16		+localtree1			
		localtree1			
17		(TCV_Null := OO_EnterPswd("1234"))			4.
18		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_01)))		
19		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ActivateSSErr_02(TCV_InvkId))))		5.
20		(TCV_Res := OO_SSresultCHK(C_ActBAIC))			
21	L_0682	[TCV_Res]		(P)	6.
22		+localtree2			
23	L_0683	[NOT TCV_Res]		(F)	
24		+localtree2			
		localtree2			
25		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
26	L_0684	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
27		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To setup traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the Activation supplementary service.
4. To enter password.

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Test Case Dynamic Behaviour
Detailed Comments : ... 5. ReturnError indication negative password checking. 6. The user indication is correct, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_4_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for deactivation of a group of call barring services in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for deactivation of a group of call barring services in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the DeactivateSS operation with the expected parameter values for deactivation of a group of call restriction services.

4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).

5) To check that the MS is able to send a password by sending a FACILITY message in accordance to the user request (MMI actions).

6) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (which is to be described by the manufacturer).

These checks are done for:
a) all restrictions, for basic service group "speech".

b) barring of outgoing calls, for all facsimile.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("#330**11#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("#333**13#"))			3.
6		+part2			
		part1			
7	L_0685	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
10	L_0686	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)	(P)	
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14	L_0687	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_03), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSSComponents.deactivateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(DeactivateSS_03)))	(P)	
15		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
16		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
17	L_0688	[TCV_Res]		(P)	
18		+localtree1			
19	L_0689	[NOT TCV_Res]		(F)	
20		+localtree1			
		localtree1			
21		(TCV_Null := OO_EnterPswd("1234"))			4.
22		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))		
23		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(DeactivateSSRslt_03(TCV_InvkId))))		
24		+PostMainLinkRel(TCV_ch)			
		part2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25	L_0690	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
26		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
27		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
28	L_0691	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)	(P)	
29		ACTIVATE(OtherEventsFail)			Restore Normal default
30		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
31		+localtree2			
		localtree2			
32	L_0692	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_04), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(DeactivateSS_04)))	(P)	
33		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
34		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
35	L_0693	[TCV_Res]		(P)	
36		+localtree3			
37	L_0694	[NOT TCV_Res]		(F)	
38		+localtree3			
		localtree3			
39		(TCV_Null := OO_EnterPswd("1234"))			
40	L_0695	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(DeactivateSSRslt_04(TCV_InvkId))))		
42		(TCV_Res := OO_SSresultCHK(C_DeactBO))			
43	L_0696	[TCV_Res]		(P)	
44		+PostMainLinkRel(TCV_ch)			
45	L_0697	[NOT TCV_Res]		(F)	
46		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup physical channel as BCCH, CCCH and SDCCH4.
2. To initiate Deactivation for B.
3. To initiate Deactivation for BO.
4. To send GetPassword invocation to the MS.
5. To enter password at the MMI.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_4_2_1

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of a group of call barring services, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the DeactivateSS operation with the expected parameter values for a group of call barring services.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

These checks are performed with a call transaction already established for :
BI, the RELEASE COMPLETE message being sent at the beginning of the procedure with a facility IE containing a return_error(error) where error is "SS subscription violation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("#353#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+localtree			
		localtree			
10	L_0698	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_05), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSSComponents.deactivateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(DeactivateSS_05)))	(P)	
11		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(DeactivateSSErr_01(TCV_InvkId))))		4.
12		(TCV_Res := OO_SSresultCHK(C_DeactBI))			
13	L_0699	[TCV_Res]		(P)	5.
14		+localtree1			
15	L_0700	[NOT TCV_Res]		(F)	
16		+localtree1			
		localtree1			
17		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
18	L_0701	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
19		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup traffic channel.
2. To establish a mobile originating call to bring the MS into state U10.
3. To initiate the DeactivateSS for BI.
4. To send ReturnError for the invocation of DeactivateSS.
5. The user indication is correct, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_4_2_2

Group : SS/

Purpose : 1) To check that, when a call transaction is already established, the MS correctly requests the establishment of a parallel MM transaction for supplementary service transaction of deactivation of a group of call restriction services, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the DeactivateSS operation with the expected parameter values for deactivation of a group of call restriction service.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

Those checks are performed with a call transaction already established for :
BOICExHC, the RELEASE COMPLETE message being sent at the end of the procedure with a facility IE containing a return_error(error) where error is "NegativePasswordCheck".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("#332#"))			3.
7	L_0702	L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)	(P)	
8		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		localtree			
10	L_0703	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_06), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03(RegisterPdu_03(facilityIErciei(DeactivateSS_06)))	(P)	
11		L!DL_DatRqFac	FacilitySnd(TCV_chTch, FacilityPdu_25_ci(TCV_TI2, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
12		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
13	L_0704	[TCV_Res]		(P)	
14		+localtree1			
15	L_0705	[NOT TCV_Res]		(F)	
16		+localtree1			
		localtree1			
17		(TCV_Null := OO_EnterPswd("1234"))			4.
18		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_01)))		
19		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(DeactivateSSErr_02(TCV_InvkId))))		5.
20		(TCV_Res := OO_SSresultCHK(C_DeactBOICExHC))			
21	L_0706	[TCV_Res]		(P)	6.
22		+localtree2			
23	L_0707	[NOT TCV_Res]		(F)	
24		+localtree2			
		localtree2			
25		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
26	L_0708	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
27		+PostMainLinkRel(TCV_chTch)			

Detailed Comments : 1. To setup traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the deactivation supplementary service.

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Test Case Dynamic Behaviour
Detailed Comments : ... 4. To enter password. 5. ReturnError indication negative password checking. 6. The user indication is correct, pass.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_6_1

Group : SS/

Purpose : 1) To check that the MS correctly requests a supplementary service transaction for interrogation of a specific call barring service in CHANNEL REQUEST message.

2) To check that the MS correctly requests a supplementary service transaction for interrogation of a call barring service in the subsequent CM−SERVICE REQUEST.

3) To check that the MS sends a REGISTER message containing the invoke of the InterrogateSS operation with the expected parameter values for interrogation of one call restriction service.

4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).

5) To check that the MS is able to send a password by sending a FACILITY message in accordance to the user request (MMI actions).

6) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (which is to be described by the manufacturer).

These checks are done for :
a) BAIC, the result of the operation being a Basic Service code sent in a FACILITY message.

b) BOICExHC, the result of the operation being a SS−status sent in a RELEASE COMPLETE message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_Null := OO_InitSS("*#35#"))			2.
4		+part1			
5		(TCV_Null := OO_InitSS("*#332#"))			3.
6		+part2			
		part1			
7	L_0709	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
8		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
10	L_0710	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)	(P)	
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
13		+localtree			
		localtree			
14	L_0711	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_07), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_07)))	(P)	
15		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
16		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
17	L_0712	[TCV_Res]		(P)	
18		+localtree1			
19	L_0713	[NOT TCV_Res]		(F)	
20		+localtree1			
		localtree1			
21		(TCV_Null := OO_EnterPswd("1234"))			4.
22		L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))		
23		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(InterrogateSSRslt_03(TCV_InvkId))))		
24		+PostMainLinkRel(TCV_ch)			
		part2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25	L_0714	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)	(P)	
26		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
27		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
28	L_0715	L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)	(P)	
29		ACTIVATE(OtherEventsFail)			Restore Normal default
30		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
31		+localtree2			
		localtree2			
32	L_0716	L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_08), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_08)))	(P)	
33		L!DL_DatRqFac	FacilitySnd(TCV_ch, FacilityPdu_25_ci(TCV_TI, facilityIEtsnd(GetPasswdSS_01(TCV_InvkId))))		
34		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
35	L_0717	[TCV_Res]		(P)	
36		+localtree3			
37	L_0718	[NOT TCV_Res]		(F)	
38		+localtree3			
		localtree3			
39		(TCV_Null := OO_EnterPswd("1234"))			
40	L_0719	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(InterrogateSSRslt_04(TCV_InvkId))))		
42		(TCV_Res := OO_SSresultCHK(C_InterrogBOICExHC))			
43	L_0720	[TCV_Res]		(P)	
44		+PostMainLinkRel(TCV_ch)			
45	L_0721	[NOT TCV_Res]		(F)	
46		+PostMainLinkRel(TCV_ch)			

Detailed Comments :
1. To setup physical channel as BCCH, CCCH and SDCCH4.
2. To initiate Interrogation for BAIC.
3. To initiate Interrogation for BOICExHC.
4. To send GetPassword invocation to the MS.
5. To enter password at the MMI.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_6_2

Group : SS/

Purpose : 1) To check that the MS correctly requests the establishement of a parallel MM transaction for supplementary service transaction of interrogation of a specific call barring service message, sending a CM−SERVICE REQUEST.

2) To check that the MS sends a REGISTER message containing the invoke of the InterrogateSS operation with the expected parameter values for interrogation of call barring.

3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.

4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).

These checks are performed with a call transaction already established for :
a) BICRoam, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "SS not available".

b) BOIC, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoke_problem) where invoke_problem is "resource limitation".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcH, TSPX_MOChRateH)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			1.
5		+Est_MO_Call(TimingAdv(0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("*#351#"))			3.
7		+part1			
8		(TCV_Null := OO_InitSS("*#331#"))			4.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
9		+part2			
		part1			
10		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
12		+localtree			
		localtree			
13		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_05), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_05)))		
14		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(InterrogateSSErr_02(TCV_InvkId))))		
15		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
16	L_0722	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
		part2			
17		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
18		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
19		+localtree1			
		localtree1			
20		L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_06), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcviei(InterrogateSS_06)))		
21		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(InterrogateSSRej_02(TCV_InvkId))))		
22		(TCV_Res := OO_SSresultCHK(C_InterrogBOIC))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23	L_0723	[TCV_Res]		(P)	
24		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
25	L_0724	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
26		+PostMainLinkRel(TCV_chTch)			
27	L_0725	[NOT TCV_Res]		(F)	
28		L!DL_DatRqCcstEnq	CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))		
29	L_0726	L?DL_DatInCcst	CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))	(P)	
30		+PostMainLinkRel(TCV_chTch)			

Detailed Comments :
1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate an interrogation for BICRoam.
4. To initiate an interrogation for BOIC.

Test Case Dynamic Behaviour

Test Case Name : TC_31_8_7

Group : SS/

Purpose : To check that upon receipt of the RELEASE COMPLETE message the MS provides the appropriate user indication (as described by the manufacturer).

This is tested in the case of barring of incoming calls.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		+InitCall(TCV_Service)			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
9		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
13		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(NotificationSS_05)))		
14		(TCV_Res := OO_SSresultCHK(C_NotifyBI))			
15	L_0727	[TCV_Res]		(P)	
16		+PostMainLinkRel(TCV_ch)			
17	L_0728	[NOT TCV_Res]		(F)	
18		+PostMainLinkRel(TCV_ch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_1_1

Group : SS/

Purpose : 1)To verify that the mobile station invokes an USSD request by sending a REGISTER message to the network containing a ProcessUnstructruredSS−Request invoke component. This message will contain the alphabet indicator set to "SMS default alphabet" and the lenguage indicator set to "language unspecified". The ussd−string parameter shall contain the following digits and symbols depending on the operation initiated:

Activation *NN(N)# (no supplementary information included)
*NN(N)*SI#(one field of supplementary information included)
*NN(N)*SIA*SIB#(two fields of supplementary information included)

Dectivation #NN(N)# (no supplementary information included)
#NN(N)*SI#(one field of supplementary information included)
#NN(N)*SIA*SIB#(two fields of supplementary information included)

Interrogation *#NN(N)# (no supplementary information included)
*#NN(N)*SI#(one field of supplementary information included)
*#NN(N)*SIA*SIB#(two fields of supplementary information included)

Registration **NN(N)# (no supplementary information included)
**NN(N)*SI#(one field of supplementary information included)
**NN(N)*SIA*SIB#(two fields of supplementary information included)

Erasure ##NN(N)# (no supplementary information included)
##NN(N)*SI#(one field of supplementary information included)
##NN(N)*SIA*SIB#(two fields of supplementary information included)

Operations not yet defined in GSM 02.30 (see 2)

NN(N) features a set of service codes which have not yet been allocated for GSM supplementary services (see GSM 02.30 for service codes already specified).
N is a digit within 1..9 and SI, SIA, SIB strings of characters.

2)To check that the entry of 1 or 2 characters defined in the GSM 03.38 default alphabet followed by "SEND" shall be interpreted by the MS as an USSD request unless the MS is not engaged in a call and the first of the two character entry followed by "SEND " is a "1".

3) To verify that, for supplementary service procedures independent of any call, the initating side must establish a MM−connection between the network and the mobile station according to the rules in TS GSM 4.07 and 4.08.

4) To verify that, within a call the MS shall transmit a USSD request if any. See TS GSM 4.07 and 4.08 for the hanndling of multiple MM connections.

5) To check that upon receipt of the RELEASE COMPLETE message, the MS shall display the information contained to the user in a way described by the manufacturer.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, C_Full)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_PreviousOctets:= ’A2120201’O, TCV_FollowingOctets:= ’300E02013B0FC6F038CD4ED3F391E712’O, TCV_counter_c:=1, TCV_counter_k:=1)			USSD String for FACILITY message (random): "Facility OK"
6		REPEAT ltree_c_loop UNTIL [TCV_counter_c>17]			
		ltree_c_loop			
7		+ltreeSetLoopParameters			
8		(TCV_Null:=OO_InitSS(TCV_UssdString))			
9		+ltree_MMConnection			
10		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
11		ACTIVATE(OtherEventsFail)			Restore Normal default
12		+ltree_UssdOperation(TCV_ch)			
13		+PostMainLinkRel(TCV_ch)			
14		+ltree_continue			
		ltree_continue			
15		+ltree_MsOrigCall			
16		(TCV_Null := OO_InitSS(TCV_UssdString))			
17		+DTMFSignalling(OC_LengthOfString(TCV_UssdString), TCV_TI0, TCV_TI, TCV_chTch)			
18		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+ltree_UssdOperation(TCV_chTch)			
20		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
21		L?DL_DatInRel	ReleaseRcv(Release_02)		
22		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))		
23		+PostMainLinkRel(TCV_chTch)			
24		(TCV_counter_c := TCV_counter_c+1)			
		ltree_MMConnection			
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
26		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
27		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
		ltree_MsOrigCall			
28		+InitCall(TCV_Service)			
29		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
30		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
31		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
32		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
33		ACTIVATE(OtherEventsFail)			Restore Normal default
34		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
35		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
36		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
37		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
38		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
39		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
		ltree_UssdOperation(ch: LOGICCH)			
40		L!DL_DatRqCmsAcp	CMSerAcp(ch, CMServiceAcp_01)		
41	L_0729	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSDReq_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSDReq_01(TCV_UssdString))))	(P)	
42		L!DL_DatRqRelCmp	RelComSnd(ch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(USSDReq_01(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets, TCV_UssdString))))		
		ltreeSetLoopParameters			
43		[TCV_counter_c=1]			
44		(TCV_UssdString:="*60#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			activation with no supplement. information
45		[TCV_counter_c=2]			
46		(TCV_UssdString:="*201*35#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			activation with one field of sup. information
47		[TCV_counter_c=3]			
48		(TCV_UssdString:="*70*635*562#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			activation with two fields of sup. information
49		[TCV_counter_c=4]			
50		(TCV_UssdString:="#60#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			deactivation with no supplement. information
51		[TCV_counter_c=5]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
52		(TCV_UssdString:="#201*35#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			deactivation with one field of sup. information
53		[TCV_counter_c=6]			
54		(TCV_UssdString:="#70*635*562#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			deactivation with two fields of sup. information
55		[TCV_counter_c=7]			
56		(TCV_UssdString:="*#60#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			interrogation with no supplement. information
57		[TCV_counter_c=8]			
58		(TCV_UssdString:="*#201*35#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			interrogation with one field of sup. information
59		[TCV_counter_c=9]			
60		(TCV_UssdString:="*#70*635*562#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			interrogation with two fields of sup. information
61		[TCV_counter_c=10]			
62		(TCV_UssdString:="**60#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			registration with no supplement. information
63		[TCV_counter_c=11]			
64		(TCV_UssdString:="**201*35#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			registration with one field of sup. information
65		[TCV_counter_c=12]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
66		(TCV_UssdString:="**70*635*562#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			registration with two fields of sup. information
67		[TCV_counter_c=13]			
68		(TCV_UssdString:="##60#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			erasure with no supplement. information
69		[TCV_counter_c=14]			
70		(TCV_UssdString:="##201*35#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			erasure with one field of sup. information
71		[TCV_counter_c=15]			
72		(TCV_UssdString:="##70*635*562#", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			erasure with two fields of sup. information
73		[TCV_counter_c=16]			
74		(TCV_UssdString:="7", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			acc. requirement 1a (GSM 11.10)
75		[TCV_counter_c=17]			
76		(TCV_UssdString:="26", TCV_PreviousOctets:=''O, TCV_FollowingOctets:=''O)			acc. requirement 1a (GSM 11.10)
77	L_0730	[TCV_counter_c>17]		I	
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_1_2

Group : SS/

Purpose : 1)To verify that if a mobile initiated USSD request using protocole version 2 is rejected by the network, and the reason for the rejection is indicated either by the problem code "unrecognized operation" or a cause "facility rejected", the mobile station shall assume that the network only supports protocole version 1 of USSD operation. The mobile station shall re−attempt the request by using the appropriate protocole version 1 USSD operation without a SS version indicator if the unstructured data entered by teh user can be coded as an IA5 string.

2)To check that, upon receipt of the RELEASE COMPLETE message, the MS shall provide the appropriate user indication (which is to be described by the manufacturer). If ussd−string information is included this shall be given to the user (in a way described by the manufacturer).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMO(TSPX_MOBscSvcC, C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_counter_k:=1, TCV_UssdString:="*70*635*562#")			
6	body	+ltree_part1			
7		+ltree_part2			
8		+ltree_part3			
		ltree_part1			
9		(TCV_Null:=OO_InitSS(TCV_UssdString))			
10		+ltree_MMConnection			
11		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
14	L_0731	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSDReq_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSDReq_01(TCV_UssdString))))	(P)	Invoke Process UnstructeredUSS−Request
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ProcessUSSRequest_02(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return result Process UnstructeredUSS−Data
16		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
17		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
18	L_0732	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSData_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSData_01(TCV_UssdString))))	(P)	Invoke Process UnstructeredUSS−Data
19		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ProcessUSSData_02(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return result Process UnstructeredUSS−Data
20		+PostMainLinkRel(TCV_ch)			
		ltree_part2			
21		(TCV_Null:=OO_InitSS(TCV_UssdString))			
22		+ltree_MMConnection			
23		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_08)		
24		ACTIVATE(OtherEventsFail)			Restore Normal default

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
26	L_0733	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSDReq_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSDReq_01(TCV_UssdString))))	(P)	Invoke ProcessUnstructuredUSS−Request
27		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_42(TCV_TI2))		Facility rejected
28		+PostMainLinkRel(TCV_ch)			
29		+ltree_MMConnection			
30		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
31		ACTIVATE(OtherEventsFail)			Restore Normal default
32		L ! DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
33	L_0734	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSData_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSData_01(TCV_UssdString))))	(P)	Invoke ProcessUnstructuredUSS−Data
34		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ProcessUSSData_02(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return result ProcessUnstructuredUSS−Data
35		+PostMainLinkRel(TCV_ch)			
		ltree_part3			
36		REPEAT ltree_k_loop UNTIL [TCV_counter_k>10]			
		ltree_k_loop			
37		+ltreeSetLoopParameters			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
38		+ltree_MsOrigCall			
39		(TCV_Null:=OO_InitSS(TCV_UssdString))			
40		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_08)		
41		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
42	L_0735	L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSDReq_01(TCV_UssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TCV_n].processUnstructuredSSRequestComponents.processUnstructuredSSRequest_InvokeComp.invokeID, 1))	Register_03(RegisterPdu_03(facilityIErcv(ProcessUSSDReq_01(TCV_UssdString))))	(P)	Invoke Process UnstructeredUSS−Request
43		+ltree_ReleaseCmpAccCounterK			
44		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI2, Cause_01, ProgInd_omit, UuInfo_omit))		
45		L?DL_DatInRel	ReleaseRcv(Release_02)		
46		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI2))		
47		+PostMainLinkRel(TCV_chTch)			
48		(TCV_counter_k:= TCV_counter_k+1)			
		ltree_ReleaseCmpAccCounterK			
49		[TCV_counter_k<5]			
50		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ProcessUSSRequest_02(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return error Process UnstructeredUSS−Request
51		[TCV_counter_k>4]			
52		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(ProcessUSSRequest_02(TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Reject Process UnstructeredUSS−Request
		ltree_MMConnection			
53		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
54		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
55		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
		ltree_MsOrigCall			
56		+InitCall(TCV_Service)			
57		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
58		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
59		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), TCV_tch_arfcn, C_normal_paging))		
60		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
61		ACTIVATE(OtherEventsFail)			Restore Normal default
62		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
63		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
64		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
65		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
66		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
67		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
		ltreeSetLoopParameters			
68		[TCV_counter_k=1]			
69		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020122'O)			RETURN ERR Error code system failure
70		[TCV_counter_k=2]			
71		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020123'O)			RETURN ERR Error code data missing
72		[TCV_counter_k=3]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
73		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020147'O)			RETURN ERR Error code unknown alpabet
74		[TCV_counter_k=4]			
75		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020124'O)			RETURN ERR Error code unexpected data value
76		[TCV_counter_k=5]			
77		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800100'O)			REJECT Gen. Problem unrecognized component
78		[TCV_counter_k=6]			
79		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800101'O)			REJECT Gen. Problem Mistyped component
80		[TCV_counter_k=7]			
81		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800102'O)			REJECT Gen. Problem badly structured component
82		[TCV_counter_k=8]			
83		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800102'O)			REJECT Invoke Problem Mistyped parameter
84		[TCV_counter_k=9]			
85		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800103'O)			REJECT Invoke Problem resource limitation
86		[TCV_counter_k=10]			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
87		(TCV_PreviousOctets:='A4060201'O, TCV_FollowingOctets:='800104'O)			REJECT Invoke Problem initiating release
88	L_0736	[TCV_counter_k>10]		I	
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_2_1

Group : SS/

Purpose : 1) To verify that for a USSD request, the MS shall display the text provided and await user input. If the user enters a response, the MS shall acknowledge the operation by sending a FACILITY message containing an empty result component to the network

2) To verify that the MS includes alphabet and language indicators in the response to the network. The alphabet indicator shall indicate "SMS default alphabet". The language indicator shall indicate "language unspecified".

3)To check that the MS is able to process the opeation during a call or out of a call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcF, C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)			
5		(TCV_UssdString:="Transaction OK")			
6	body	+ltree_body			
		ltree_body			
7		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
8		L!DL_DatRqRegister(TCV_TI.ti_v:='100'B, TCV_TI.ti_f:='0'B, TCV_TI0.ti_v:='100'B, TCV_TI0.ti_f:='1'B, TCV_InvkId:='00'O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(NotificationSS_06(TCV_InvkId, TCV_UssdString))))		
9		+CheckUssdStringDisplayed(TCV_UssdString)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
10	L_0737	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(NotificationSS_07(TCV_InvkId))))	(P)	
11		+CC_EstMsTermCall(TCV_ChRate, TSPX_TCHHSubDef)			
12		L ! DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_47(TCV_TI))		
13		L!DL_DatRqRegister(TCV_TI2.ti_v:='001'B, TCV_TI2.ti_f:='0'B, TCV_TI1.ti_v:='001'B, TCV_TI1.ti_f:='1'B, TCV_InvkId:='01'O)	RegisterReq(TCV_chTch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(NotificationSS_06(TCV_InvkId, TCV_UssdString))))		
14		+CheckUssdStringDisplayed(TCV_UssdString)			
15	L_0738	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(NotificationSS_07(TCV_InvkId))))	(P)	
16		L ! DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_47(TCV_TI2))		
17		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
18		L?DL_DatInRel	ReleaseRcv(Release_02)		
19		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
20		+ChanRel_end(TCV_chTch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_2_2

Group : SS/

Purpose : To verify that when the mobile station receives an USSD operation in parallel to any call independent supplementary transaction, it responds with a return error component in a RELEASE COMPLETE message, containing "USSD−Busy" error.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_UssdString:="Transaction OK")			
4	body	+ltree_body			
		ltree_body			
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
6		L!DL_DatRqRegister(TCV_TI.ti_v:='000'B, TCV_TI.ti_f:='0'B, TCV_TI0.ti_v:='000'B, TCV_TI0.ti_f:='1'B, TCV_InvkId0:='00'O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(NotificationSS_06(TCV_InvkId0, TCV_UssdString))))		
7		+CheckUssdStringDisplayed(TCV_UssdString)			
8	L_0739	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(NotificationSS_07(TCV_InvkId0))))	(P)	
9		L!DL_DatRqRegister(TCV_TI2.ti_v:='001'B, TCV_TI2.ti_f:='0'B, TCV_TI1.ti_v:='001'B, TCV_TI1.ti_f:='1'B, TCV_InvkId1:='01'O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(NotificationSS_06(TCV_InvkId1, TCV_UssdString))))		
10	L_0740	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_49(TCV_TI1, TCV_InvkId1))	(P)	
11		L ! DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(NotificationSS_08(TCV_InvkId0))))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		+ChanRel_end(TCV_ch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_2_3

Group : SS/

Purpose : 1) To verify that for a USSD notification, the MS shall display the text provided and await user input. If the user enters a response, the MS shall return the response to the network, maintaining the transaction.

2) To verify that the MS includes alphabet and language indicators in the response to the network. The alphabet indicator shall indicate "SMS default alphabet". The language indicator shall indicate "language unspecified".

3)To check that the MS is able to process the opeation during a call or out of a call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+BasicServiceMT(TSPX_MTBscSvcG, C_Full)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+FullRateCh_A_1_nociph(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		(TCV_UssdString1 := "Type *70*635*562# and send", TCV_UssdString2 := "*70*635*562#")			
6	body	+ltree_body			
		ltree_body			
7		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
8		L!DL_DatRqRegister(TCV_TI.ti_v:=’010’B, TCV_TI.ti_f:=’0’B, TCV_TI0.ti_v:=’010’B, TCV_TI0.ti_f:=’1’B, TCV_InvkId:=’00’O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(USSDReq_03(TCV_InvkId, TCV_UssdString1))))		
9		+CheckUssdStringDisplayed(TCV_UssdString1)			
10		(TCV_Null:=OO_InitSS(TCV_UssdString2))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
11	L_0741	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(USSDReq_04(TCV_InvkId, TCV_UssdString2))))	(P)	
12		+CC_EstMsTermCall(C_Full, TSPX_TCHHSubDef)			
13		L ! DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_47(TCV_TI))		
14		L!DL_DatRqRegister(TCV_TI2.ti_v:='001'B, TCV_TI2.ti_f:='0'B, TCV_TI1.ti_v:='001'B, TCV_TI1.ti_f:='1'B, TCV_InvkId:='01'O)	RegisterReq(TCV_chTch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(USSDReq_03(TCV_InvkId, TCV_UssdString1))))		
15		+CheckUssdStringDisplayed(TCV_UssdString1)			
16		(TCV_Null := OO_InitSS(TCV_UssdString2))			
17		+DTMFSignalling(OC_LengthOfString(TCV_UssdString2), TI_01, TI_02, TCV_chTch)			
18	L_0742	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(USSDReq_04(TCV_InvkId, TCV_UssdString2))))	(P)	
19		L ! DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_47(TCV_TI2))		
20		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
21		L?DL_DatInRel	ReleaseRcv(Release_02)		
22		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
23		+ChanRel_end(TCV_chTch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_9_2_4

Group : SS/

Purpose : To verify that when the mobile station receives an USSD operation in parallel to any call independent supplementary transaction, it responds with a return error component in a RELEASE COMPLETE message, containing "USSD−Busy" error.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_UssdString1 := "Type *70*635*562# and send", TCV_UssdString2 := "*70*635*562#")			
4	body	+ltree_body			
		ltree_body			
5		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
6		L!DL_DatRqRegister(TCV_TI.ti_v:=’000’B, TCV_TI.ti_f:=’0’B, TCV_TI0.ti_v:=’000’B, TCV_TI0.ti_f:=’1’B, TCV_InvkId0:=’00’O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(NotificationSS_06(TCV_InvkId0, TCV_UssdString1))))		
7		+CheckUssdStringDisplayed(TCV_UssdString1)			
8		(TCV_Null:=OO_InitSS(TCV_UssdString2))			
9	L_0743	L?DL_DatInFac	FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(USSDReq_04(TCV_InvkId0, TCV_UssdString2))))	(P)	
10		L!DL_DatRqRegister(TCV_TI2.ti_v:=’001’B, TCV_TI2.ti_f:=’0’B, TCV_TI1.ti_v:=’001’B, TCV_TI1.ti_f:=’1’B, TCV_InvkId1:=’01’O)	RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(NotificationSS_06(TCV_InvkId1, TCV_UssdString1))))		
11	L_0744	L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_50(TCV_TI1, TCV_InvkId1))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
12		L ! DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(USSDReq_06(TCV_InvkId0))))		
13		+ChanRel_end(TCV_ch)			
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_31_10

Group : SS/

Purpose : To check that the entry of two digits in the form !X (X in the set 0..9) followed by SEND is accepted by the mobile station in idle mode as a normal call establishment for the 1X number. It is checked that the MS sends a CHANNEL REQUEST, sends CM SERVICE REQUEST message for mobile originated call (after having received an IMMEDIATE ASSIGNMENT), and then sends the SETUP message containing the 1X phone number as called number (after having received the CM SERVICE ACCEPT message)

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+test("10")			
4		+test("11")			
5		+test("12")			
6		+test("13")			
7		+test("14")			
8		+test("15")			
9		+test("16")			
10		+test("17")			
11		+test("18")			
12		+test("19")			
		test(num : IA5String)			
13		(TCV_Null := OO_InitSS(num))			2.
14		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
15		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
16		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		

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Test Case Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
18		ACTIVATE(OtherEventsFail)			Restore Normal default
19		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
20		L?DL_DatInSetup(TCV_TI := DL_DatInSetup.msg.ti, TCV_CalledNum := DL_DatInSetup.msg.cdpn, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv(SetupInd_01)		
21		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_08(TCV_TI))		
22		+PostMainLinkRel(TCV_ch)			
23		+ltree_check(num)			3.
24		START T_dly(10000)			
25		?TIMEOUT T_dly			
		ltree_check(num : IA5String)			
26		(TCV_Res := OC_CalledNumCHK(TCV_CalledNum.digits, num))			3.
27	L_0745	[TCV_Res]		(P)	
28	L_0746	[NOT TCV_Res]		(F)	

Detailed Comments : 1. To setup physical channel as BCCH, CCCH and SDCCH4.
2. To dial the two digits number.
3. To check whether the received called party number is the same as the dialled number.

Test Case Dynamic Behaviour

Test Case Name : TC_33_6

Group : MSFeatures/

Purpose : 1) To verify that during an established call:
either
1.1) on removal of the SIM from an MS, the MS will perform an IMSI detach;
or
1.2) after removing the power source from the MS, removing the SIM, and restoring the power source to the MS, the MS may perform an IMSI detach.

2) To verify that an MS without SIM card will not establish a MO call which is not an emergency call.

3) To verify that an MS without SIM card will not accept an incoming call.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			ATT flag is SI3 set to "IMSI attach/detach required"
3		+Step_a			
4		+Step_c			
5		+Step_d			
6		+Step_e			
		Step_a			
7		+BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)			Set up a Call
8		(TCV_asscmd_ts := TSPX_TmSltDef)			
9		+FullRateCh_A_1(C_Ass, TCV_asscmd_ts, TSPX_TscDef, TCV_ChMod, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
10		+Est_MT_CallNonFH(TimingAdv(0), TSPX_MTChRateA, TSPX_TCHHSubDef, TSPX_RANDDef)			
11		(TCV_ch :=TCV_chTch)			
		Step_c			
12		[TSPC_SIMRmv]			
13		(TCV_Null :=OO_SIMRmv())			
14		+Ltree_ImsiDetach(35000, C_No)			
15		[NOT TSPC_SIMRmv]			
16		(TCV_Null :=OO_PowerDown())			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		+Ltree_ImsiDetach(10000, C_Yes)			
18		(TCV_Null :=OO_SIMRmv())			
19		(TCV_Null :=OO_PowerUp())			
20		+Ltree_ImsiDetach(35000, C_Yes)			
		Step_d			
21		(TCV_Null := OO_InitCall(TSPX_MOBscSvcA))			Initiate MO call
22		+NoReaction(20000)			
		Step_e			
23		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(MiImsi_01))		
24		+NoReaction(20000)			
		Ltree_ImsiDetach(t : INTEGER ; valid_TimeOut : BOOLEAN)			
25		START T_dly(t)			
26	L_1100	L?DL_DatInImsidIn	DatInImsiDet(ImsiDetach_01)	(P)	IMSI detach accepted or..
27		L?DL_RelIn CANCEL T_dly	DLRelInd_01		
28		?TIMEOUT T_dly			
29		?TIMEOUT T_dly			No response
30	L_1101	[valid_TimeOut]		(P)	
31	L_1102	[NOT valid_TimeOut]		F	

Detailed Comments : Procedural steps:a) A call is set up.
b) (Reserved).
c) Either
(i) the SIM is removed;
or
(ii) where this is not possible, the power source is removed from the MS, the SIM is removed and the power source is restored to the MS.
The SS observes whether or not the MS performs IMSI detach.
d) An attempt to establish a MO call is made (not an emergency call).
e) An attempt to establish a MT call is made.

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_1

Group : SM/

Purpose : To verify the ability of a MS to receive and decode the SMS where provided for the point to point service.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		+ltree_emptystorage(TRUE)			
3		(TCV_asscmd_ts := TSPX_TmSltDef, TCV_RPOA_MT:='1111111111'O, TCV_TPOA1:='3333333333'O, TCV_Rpmr := '00'O)			
4		+BasicServiceMT(TSPX_MTBscSvcE, C_Full)			
5		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
6		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
7	body	+ltree_part1			1
8		+ltree_part2			2
9		+ltree_part3			3
10		+ltree_part4			4
		ltree_part1			
11		+ltree_Environment1			
12		+ltree_sms1(TCV_ch)			
13		+ltree_CheckMessage(TCV_ch, FALSE)			
14		+ltree_Environment1			
15		+ltree_sms3(TCV_ch)			
16		+ltree_CheckMessage(TCV_ch, FALSE)			
17		+ltree_Environment1			
18		+ltree_sms4(TCV_ch, 5)			
19		+ChanRel(TCV_ch)			
20		+ltree_CheckMessage(TCV_ch, TRUE)			
		ltree_part2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		+ltree_Environment2			
22		+ltree_sms1_tch(TCV_chSms)			
23		+ltree_CheckMessage(TCV_chTch, TRUE)			
24		+ltree_Environment2			
25		+ltree_sms3_tch(TCV_chSms)			
26		+ltree_CheckMessage(TCV_chTch, TRUE)			
27		+ltree_Environment2			
28		+ltree_sms4(TCV_chSms, 15)			
29		+ChanRel(TCV_chTch)			
30		+ltree_CheckMessage(TCV_chTch, TRUE)			
		ltree_part3			
31		+ltree_Environment2			
32		+ltree_ClearTchChannel_SS			
33		+ltree_sms1(TCV_chSms)			
34		+ltree_CheckMessage(TCV_chTch, TRUE)			
		ltree_part4			
35		+ltree_Environment2			
36		+ltree_ClearTchChannel_MS			
37		+ltree_CheckMessage(TCV_chTch, TRUE)			
		ltree_Environment1			
38		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
39		(TCV_CPDataRetx := 0, TCV_ti_v_2 := ’000’B, TCV_chSms := TCV_ch)			
40		+ltree_set_sapi3_SDCCH			
		ltree_Environment2			
41		+Est_MT_CallNonFH(TimingAdv(0), C_Full, TSPX_TCHHSubDef, TSPX_RANDDef)			
42		(TCV_CPDataRetx := 0, TCV_ti_v_2 := ’000’B, TCV_chSms := C_SACCHF_A_1)			
43		+ltree_set_sapi3_SACCH			
		ltree_set_sapi3_SDCCH			
44		L!DL_EstRq	DLEstRq(TCV_ch)		SABM(SAPI=3)
45		L?DL_EstCo	DLEstCo(TCV_ch)		UA(SAPI=3)
		ltree_set_sapi3_SACCH			
46		L!DL_EstRq	DLEstRq(TCV_chSms)		SABM(SAPI=3)
47		L?DL_EstCo	DLEstCo(TCV_chSms)		UA(SAPI=3)
		ltree_ClearTchChannel_SS			
48		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
49	L_0747	L?DL_DatInRel	ReleaseRcv(Release_10(TI_01))	(P)	
50		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))		
		ltree_ClearTchChannel_MS			
51		(TCV_Null := OO_TermCall())			
52	L_0748	L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TI_01, Cause_Def))	(P)	
53		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone0)), TCV_chSms)		CP−DATA including RP−Data(SMS DELIVER) n−>ms
54		L!DL_DatRqRel	ReleaseSnd(TCV_chTch, Release_08(TI_02))		
55		L?DL_DatInRelCmp	RelComRcv(ReleaseCmp_03(TI_01))		
56	L_0749	?TIMEOUT T_dly		(F)	
57		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		CP−ACK ms−>n
58	L_0750	?TIMEOUT T_dly		(F)	
59		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA including RP−Ack ms−>n
60		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
61		L?DL_RelIn	DLRelInd_01		
		ltree_sms1(ch: LOGICCH)			
62		+ltree_sms2(ch)			
63		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
64		L?DL_RelIn	DLRelInd_01		
		ltree_sms2(ch: LOGICCH)			
65		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpdeliver.ud) START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone0)), TCV_chSms)		CP−DATA including RP−Data(SMS DELIVER) n−>ms
66	L_0751	?TIMEOUT T_dly		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
67		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		CP−ACK ms−>n
68	L_0752	?TIMEOUT T_dly		(F)	
69		L?DL_DatInCpData CANCEL T_dly	DatInCpData(ch, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA including RP−Ack ms−>n
		ltree_sms3(ch: LOGICCH)			
70		+ltree_sms2(ch)			
71		START T_dly(TCV_T_TwiceTC1M)			
72	L_0753	?TIMEOUT T_dly		(F)	First CP−DATA(Rp−Ack) not acknowledged
73		L?DL_DatInCpData CANCEL T_dly	DatInCpData(ch, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA(RP−Ack) retransmitted
74		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		Second CP−DATA(Rp−Ack) acknowledged
75		L?DL_RelIn	DLRelInd_01		
		ltree_sms4(ch: LOGICCH; time: INTEGER)			
76		+ltree_sms2(ch)			
77		REPEAT ltree_sms5(ch) UNTIL [TCV_CPDataRetx = TSPX_MaxCPDataRetx]			CP−DATA(RP−Ack) retransmitted
78		START T_dly(((TSPX_TC1M + time) * 1000))			
79	L_0754	L?DL_DatInCpData CANCEL T_dly	DatInCpData(ch, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))	(F)	RP−Ack shall not be sent more than TSPX_MaxCPDataRetx times
80	L_0755	?TIMEOUT T_dly		(P)	
		ltree_sms5(ch: LOGICCH)			
81		START T_dly(TCV_T_TwiceTC1M)			
82	L_0756	?TIMEOUT T_dly		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
83		L?DL_DatInCpData CANCEL T_dly	DatInCpData(ch, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA (RP−Ack) ms−>n
84		(TCV_CPDataRetx := TCV_CPDataRetx + 1)			
		ltree_CheckMessage(ch: LOGICCH; Emptying : BOOLEAN)			
85		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMessageDisplayed(160, TCV_SMcntns))			
86	L_0757	[NOT TCV_Res]		(F)	
87		+ltree_emptystorage(Emptying)			
88	L_0758	[TCV_Res]		(P)	
89		+ltree_emptystorage(Emptying)			
		ltree_sms1_tch(ch: LOGICCH)			
90		+ltree_sms2(ch)			
91		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
92		+ltree_ClearTchChannel_SS			
93		L?DL_RelIn	DLRelInd_01		
		ltree_sms3_tch(ch: LOGICCH)			
94		+ltree_sms2(ch)			
95		START T_dly(TCV_T_TwiceTC1M)			
96	L_1065	?TIMEOUT T_dly		(F)	First CP−DATA(Rp−Ack) not acknowledged
97		L?DL_DatInCpData CANCEL T_dly	DatInCpData(ch, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA(RP−Ack) retransmitted
98		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		Second CP−DATA(Rp−Ack) acknowledged
99		+ltree_ClearTchChannel_SS			
100		L?DL_RelIn	DLRelInd_01		
		ltree_emptystorage(Emptying : BOOLEAN)			
101		[Emptying]			
102		(TCV_Null := OO_EmptyMessageStorage())			
103		[NOT Emptying]			

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Test Case Dynamic Behaviour	
Detailed Comments :	1: Parts a) to f) of the test procedure as described in GSM 11.10, 34.2.1 2: Parts g) to j) of the test procedure as described in GSM 11.10, 34.2.1 3: Part k) of the test procedure as described in GSM 11.10, 34.2.1 4: Part l) of the test procedure as described in GSM 11.10, 34.2.1

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_2

Group : SM/

Purpose : To verify the MS ability to correctly send a short message where the SMS is provided for the point to point service. It also verifies the MS capability to simultaneously receive a network originated SM whilst sending a mobile originated SM.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(1200)			
2		(TCV_Null:=OO_EmptyMessageStorage(), TCV_asscmd_ts := TSPX_TmSltDef, TCV_RPOA_MT:='1111111111'O, TCV_TPOA1:='5555555555'O)			
3		+BasicServiceMT(TSPX_MTBscSvcF, C_Full)			
4		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
5		+FullRateCh_A_1(C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_speech, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)			
6	body	+ltree_part1			1
7		+ltree_part2			2
8		+ltree_part3			3
9		+ltree_part4			4
		ltree_part1			
10		+ltree_Environment1_3			
11		+ltree_sms1(TCV_ch)			
12		+ltree_ChanRel(TCV_ch)			
13		+ltree_Environment1_3			
14		+ltree_sms3(TCV_ch, 5)			
15		+ltree_Environment1_3			
16		+ltree_sms4			CP−Error
17		+ltree_ChanRel(TCV_ch)			
		ltree_part2			
18		+ltree_Environment2			
19		+ltree_sms1(TCV_chSms)			
20		+ltree_ChanRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		+ltree_Environment2			
22		+ltree_sms3(TCV_chTch, 15)			
		ltree_part3			
23		+ltree_Environment1_3			
24		+ltree_sms5			MT−SM
25		+ltree_sms2(TCV_ch)			Terminate MO−SM
26		+ltree_ChanRel(TCV_ch)			
27		(TCV_Res := OO_CheckMessageDisplayed(160, TCV_SMcntns))			
28	L_0759	[NOT TCV_Res]		(F)	
29	L_0760	[TCV_Res]		(P)	
		ltree_part4			
30		+ltree_Environment4			
31		+ChanRel_end(TCV_ch)			
		ltree_init			
32		(TCV_Null:=OO_SendMOShortMessage())			
33		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
34		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
35		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
36		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_09)		
37		ACTIVATE(OtherEventsFail)			Restore normal default tree
		ltree_Environment1_3			
38		+ltree_init			
39		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
40		+Ciphering_on(TCV_ch)			
41		+ltree_set_sapi3_SDCCH			
		ltree_Environment2			
42		+Wait(C_T_Wait1)			
43		+Est_MT_CallNonFH(TimingAdv(0), C_Full, TSPX_TCHHSubDef, TSPX_RANDDef)			
44		(TCV_Null := OO_SendMOShortMessage())			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
45		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_09)		
46		L!DL_DatRqCmsAcp	CMSerAcp(TCV_chTch, CMServiceAcp_01)		
47		+ltree_set_sapi3_SACCH			
		ltree_Environment4			
48		+ltree_init			
49		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_03)		Service Option not supported
50		START T_dly(5000)			
51	L_0761	?TIMEOUT T_dly		(P)	
52	L_0762	L?DL_EstIn CANCEL T_dly	DLEstInd_2(TCV_ch)	(F)	SAPI−3 shall NOT be established
		ltree_sms1(ch: LOGICCH)			
53		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(ch, CpDataPdu_03(CpData_03(RpData_03)))		CP−DATA(RP−Data SMS SUBMIT)
54		+ltree_sms2(ch)			Terminate MO−SM
		ltree_sms2(ch: LOGICCH)			
55		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v)), TCV_chSms)		CP−ACK n−>ms
56		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_02(TI_08(TCV_ti_v), CpData_04(TCV_Rpmr)), TCV_chSms)		CP−DATA(RP−Ack) n−>ms
57	L_0763	?TIMEOUT T_dly		(F)	
58		+ChanRel(ch)			
59	L_0764	L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v)))	(P)	CP−ACK ms−>n
		ltree_sms3(ch: LOGICCH; t : INTEGER)			
60		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_03)))		CP−DATA(RP−Data SMS SUBMIT)
61		REPEAT ltree_sms6(ch) UNTIL [TCV_CPDataRetx = TSPX_MaxCPDataRetx]			MO−SM is retransmitted

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
62		START T_dly(((TSPX_TC1M + t) * 1000))			
63	L_0765	L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_03)))	(F)	RP−Data(RP Data SMS SUBMIT) shall NOT be sent more than TSPX_MaxCPDataRetx times
64		+ChanRel(ch)			
65		?TIMEOUT T_dly			
66		+ltree_ChanRel(ch)			
		ltree_sms4			
67		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_03)))		CP−DATA(RP−Data SMS SUBMIT)
68		L!DL_DatRqCpError	DatRqCpError(CpErrPdu_01(TI_08(TCV_ti_v)), TCV_chSms)		CP error n−>ms "Network Failure"
		ltree_sms5			
69		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_03)))		CP−DATA(RP−Data SMS SUBMIT)
70		+ltree_ti			
71		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat .tpdeliver.ud) START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone1)), TCV_chSms)		CP−DATA(RP−Data SMS DELIVER), n−>ms
72	L_0766	?TIMEOUT T_dly		(F)	
73		+ChanRel(TCV_ch)			
74	L_0767	L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))	(P)	CP−ACK ms−>n
75	L_0768	?TIMEOUT T_dly		(F)	
76		+ChanRel(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
77	L_0769	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))	(P)	CP−DATA(RP−Ack) n−>ms
78		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
		ltree_sms6(ch: LOGICCH)			
79		START T_dly(TCV_T_TwiceTC1M)			
80	L_0770	?TIMEOUT T_dly		(F)	
81		+ChanRel(ch)			
82		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v) CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_03)))		CP−DATA(RP−Data SMS SUBMIT)
83		(TCV_CPDataRetx := TCV_CPDataRetx + 1)			
		ltree_set_sapi3_SDCCH			
84		L?DL_EstIn	DLEstInd_2(TCV_ch)		
85		(TCV_CPDataRetx := 0, TCV_chSms := TCV_ch)			
		ltree_set_sapi3_SACCH			
86		L?DL_EstIn	DLEstInd_2(C_SACCHF_A_1)		
87		(TCV_CPDataRetx := 0, TCV_chSms := C_SACCHF_A_1)			
		ltree_ti			
88		[TCV_ti_v='000'B]			
89		(TCV_ti_v_2:='001'B)			
90		[NOT(TCV_ti_v='000'B)]			
91		(TCV_ti_v_2:='000'B)			
		ltree_ChanRel(ch: LOGICCH)			
92		+ChanRel(ch)			
93		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			

Detailed Comments : 1: Parts a) to f) of the test procedure as described in GSM 11.10, 34.2.2.3
2: Parts g) to i) of the test procedure as described in GSM 11.10, 34.2.2.3
3: Part j) of the test procedure as described in GSM 11.10, 34.2.2.3
4: Part k) of the test procedure as described in GSM 11.10, 34.2.2.3

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_3

Group : SM/

Purpose : 1. To verify that the MS sends the correct acknowledgement when its memory in the SIM becomes full.
2. To verify that the MS sends the correct acknowledgement when its memory in the ME and the SIM becomes full, and sets the "memory exceeded" notification flag in the SIM.
3. To verify that the MS performs the "memory available" procedure when its message store becomes available for receiving short messages, and only at this moment.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null := OO_EmptyMessageStorage(), TCV_Null := OO_MSSetupStoreClass1SMInMEMemory(), TCV_Null := OO_ConnectSIMSimulator(), TCV_RPOA_MT:=’1111111111’O, TCV_TPOA1:=’3333333333’O, TCV_Rpmr:=’00’O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_part1			1
5		+ltree_part2			2
6		+ltree_sms3			3
7		+ltree_sms4			4
		ltree_part1			
8		(TCV_ProtErrorUnspec := FALSE, TCV_MemCapExcd := FALSE)			
9		REPEAT ltree_sms1 UNTIL [(TCV_ProtErrorUnspec) OR (TCV_MemCapExcd)]			
		ltree_part2			
10		(TCV_MemCapExcd := FALSE)			
11		REPEAT ltree_sms2 UNTIL [TCV_MemCapExcd]			
		ltree_Environment			
12		+Wait(C_T_Wait1)			
13		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
14		+ltree_set_sapi3_SDCCH_MT			
15		(TCV_ti_v_2:=’000’B, TCV_chSms:=TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_Environment2			
16		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
17		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
18		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
19		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_09)		
20		ACTIVATE(OtherEventsFail)			Restore normal default tree
21		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
22		+ltree_set_sapi3_SDCCH_MO			
23		(TCV_chSms:=TCV_ch)			
		ltree_sms1			
24		+ltree_Environment			
25		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_05(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms)		CP−DATA(RP−Data SMS DELIVER), n−>ms class 2 MT−SM
26	L_0771	?TIMEOUT T_dly		(F)	
27		+ChanRel(TCV_ch)			
28	L_0772	L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))	(P)	CP−ACK ms−>n
29	L_0773	?TIMEOUT T_dly		(F)	
30		+ChanRel(TCV_ch)			
31	L_0774	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))	(P)	CP−DATA(RP−Ack) ms−>n
32		L!DL_DatRqCpDataAck CANCEL T_dly	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
33		+ChanRel(TCV_ch)			
34		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
35	L_0775	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_07(TCV_Rpmr)))	(P)	CP−DATA(RP−Error: Protocol Error, unspecified)
36		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
37		(TCV_ProtErrorUnspec := TRUE)			SMS storage in SIM full
38		+ChanRel(TCV_ch)			
39		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
40	L_0776	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))	(P)	CP−DATA(RP−Error: Memory Capacity Exceeded)
41		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
42		(TCV_MemCapExcd := TRUE)			SMS storage in ME + SIM full
43		+ChanRel(TCV_ch)			
44		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOnSIM())			
45	L_0777	[NOT TCV_Res]		(F)	
46	L_0778	[TCV_Res]		(P)	
		ltree_sms2			
47		+ltree_Environment			
48		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_06(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms)		CP−DATA(RP−Data SMS DELIVER), n−>ms, class 1 MT−SM
49	L_0779	?TIMEOUT T_dly		(F)	
50		+ChanRel(TCV_ch)			
51		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		CP−ACK ms−>n

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
52	L_0780	?TIMEOUT T_dly		(F)	
53		+ChanRel(TCV_ch)			
54		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA(RP−Ack) ms−>n
55		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
56		+ChanRel(TCV_ch)			
57		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
58		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))		CP−DATA(RP−Error: Memory Capacity Exceeded)
59		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
60		(TCV_MemCapExcd := TRUE)			SMS storage in ME + SIM full
61		+ChanRel(TCV_ch)			
62		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOnSIM())			
63	L_0781	[NOT TCV_Res]		(F)	
64	L_0782	[TCV_Res]		(P)	
		ltree_sms3			
65		+ltree_Environment			
66		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms)		CP−DATA(RP−Data SMS DELIVER) TP−DCS is 0
67	L_0783	?TIMEOUT T_dly		(F)	
68		+ChanRel(TCV_ch)			
69		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		CP−ACK ms−>n
70	L_0784	?TIMEOUT T_dly		(F)	
71		+ChanRel(TCV_ch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
72		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))		CP−DATA(RP−Error: Memory Capacity Exceeded)
73		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
74		+ChanRel(TCV_ch)			
75		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Null := OO_RemoveOneSM())			
		ltree_sms4			
76		+ltree_Environment2			
77		L?DL_DatInCpData(TCV_ti_v := DL_DatInCpData.msg.ti.ti_v, TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpsmma.rpmr)	DatInCpData(TCV_chSms, CpDataPdu_02(TI_09, CpData_09))		CP−DATA(RP−SMMA), ms−>n
78		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v)), TCV_chSms)		CP−ACK n−>ms
79		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_02(TI_08(TCV_ti_v), CpData_04(TCV_Rpmr)), TCV_chSms)		CP−DATA(RP−Ack) n−>ms
80	L_0785	?TIMEOUT T_dly		(F)	
81		+ChanRel(TCV_ch)			
82		L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v)))		CP−ACK ms−>n
83		+ChanRel(TCV_ch)			
84		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOnSIMUnset())			
85	L_0786	[NOT TCV_Res]		(F)	
86	L_0787	[TCV_Res]		(P)	
87		(TCV_Null := OO_RemoveOneSM())			
88		START T_dly(60000)			
89	L_0788	L?DL_RacInChRq(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_04)	(F)	The MS shall not attempt to send RP−SSMA
90		+ChanRel(TCV_ch)			
91	L_0789	?TIMEOUT T_dly		(P)	
		ltree_set_sapi3_SDCCH_MT			
92		L!DL_EstRq	DLEstRq(TCV_ch)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
93		L?DL_EstCo ltree_set_sapi3_SDCCH_MO	DLEstCo(TCV_ch)		
94		L?DL_EstIn	DLEstInd_2(TCV_ch)		

Detailed Comments : 1: Part a) of the test procedure as described in GSM 11.10, 34.2.3.3
2: Parts b) to c) of the test procedure as described in GSM 11.10, 34.2.3.3
3: Parts d) to e) of the test procedure as described in GSM 11.10, 34.2.3.3
4: Parts f) to k) of the test procedure as described in GSM 11.10, 34.2.3.3

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_4

Group : SM/

Purpose : 1) To verify that the MS is able to accept a SMS−STATUS−REPORT TPDU.

2) To verify that a MS able to use the SMS−COMMAND functionality correctly sends a SMS−COMMAND TPDU with the correct TP−Message−Reference.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_RPOA_MT:='1111111111'O, TCV_TPDA:='5555555555'O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_part1			1
5		+ltree_part2			2
6		+ltree_part3			3
7		+ltree_part4			4
		ltree_part1			
8		(TCV_Null := OO_SendMOShortMessage())			
9		+ltree_PrepareEnvironmentParts1_3_4			
10		+ltree_sms1			Initiate MO−SM , status report requested
11		+ltree_sms2			Terminate MO−SM
		ltree_part2			
12		+ltree_PrepareEnvironmentPart2			
13		+ltree_sms3			MT−SM (SMS Status Report)
		ltree_part3			
14		(TCV_Null := OO_SendSMSCOMMANDEnq())			
15		+ltree_PrepareEnvironmentParts1_3_4			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
16		+ltree_sms4			Initiate MO−SM (SMS COMMAND, enquiry)
17		+ltree_sms2			Terminate MO−SM
		ltree_part4			
18		(TCV_Null := OO_SendSMSCOMMANDDel())			
19		+ltree_PrepareEnvironmentParts1_3_4			
20		+ltree_sms5			Initiate MO−SM (SMS COMMAND, deletion)
21		+ltree_sms2			Terminate MO−SM
		ltree_PrepareEnvironmentParts1_3_4			
22		(TCV_chSms:=TCV_ch)			
23		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
24		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
25		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
26		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_09)		
27		ACTIVATE(OtherEventsFail)			Restore normal default tree
28		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
29		+Ciphering_on(TCV_ch)			
30		+ltree_set_sapi3_SDCCH_MO			
		ltree_PrepareEnvironmentPart2			
31		+Wait(C_T_Wait1)			
32		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
33		+ltree_set_sapi3_SDCCH_MT			
34		(TCV_ti_v_2 := ’000’B, TCV_chSms := TCV_ch)			
		ltree_sms1			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
35		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_Tpmr := DL_DatInCpData.msg.CPdata.rpdata.rpusrdat.tpsubmit.mr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_08)))		RP−Data
		ltree_sms2			
36		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v)), TCV_chSms)		
37		L!DL_DatRqCpData	DatRqCpData(CpDataPdu_02(TI_08(TCV_ti_v), CpData_04(TCV_Rpmr)), TCV_chSms)		RP−Ack
38		START T_dly(25000)			
39	L_0790	?TIMEOUT T_dly		(F)	
40		+ChanRel(TCV_ch)			
41		L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v)))		
42		+ChanRel_P(TCV_ch)			
43		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_sms3			
44		+ltree_PrepareEnvironmentPart2			
45		L!DL_DatRqCpData	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_12(TCV_TPDA, TCV_RPOA_MT, TCV_Tpmr, TCV_Rpmr, C_Tzone3)), TCV_chSms)		RP−Data status report
46		START T_dly(25000)			
47	L_0791	?TIMEOUT T_dly		(F)	
48		+ChanRel(TCV_ch)			
49		L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		
50		START T_dly(60000)			
51	L_0792	?TIMEOUT T_dly		(F)	
52		+ChanRel(TCV_ch)			
53		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		RP−Ack
54		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
55		+ChanRel(TCV_ch)			
56		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		ltree_sms4			
57		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_Tpmr := DL_DatInCpData.msg.CPdata.rpdata.rpusrdat.tpcommand.mr, TCV_ti_v:=DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_11 (TCV_Rpmr, TpCommand_01(TCV_Tpmr)))))		RP−Data, SMS COMMAND, enquiry
		ltree_sms5			
58		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_03(CpData_03(RpData_11 (TCV_Rpmr, TpCommand_02(TCV_Tpmr)))))		RP−Data, SMS COMMAND, deletion
		ltree_set_sapi3_SDCCH_MO			
59		L?DL_EstIn	DLEstInd_2(TCV_ch)		
		ltree_set_sapi3_SDCCH_MT			
60		L!DL_EstRq	DLEstRq(TCV_ch)		
61		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_5_1

Group : SM/

Purpose : To verify that the MS will accept and display but not store a class 0 message, and that it will accept and display a class 0 message if its message store is full.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null:=OO_EmptyMessageStorage(), TCV_RPOA_MT:='1111111111'O, TCV_TPOA1:='3333333333'O, TCV_Rpmr:='00'O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_sms1			1
5		(TCV_Res := OO_RecallAndDisplaySM(160, TCV_SMcntns))			
6	L_0793	[TCV_Res]		(F)	Message store should be empty
7	L_0794	[NOT TCV_Res]		(P)	
8		+ltree_Release			
9		(TCV_MemCapExcd := FALSE)			
10		REPEAT ltree_sms2 UNTIL [TCV_MemCapExcd]			
11		+ltree_Release			
12		+ltree_sms1			3
13		+ChanRel_end(TCV_ch)			
		ltree_Release			
14		+ChanRel(TCV_ch)			
15		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_Environment			
16		+Wait(C_T_Wait1)			
17		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
18		+ltree_set_sapi3_SDCCH_MT			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		(TCV_ti_v_2 := '000'B, TCV_chSms := TCV_ch)			
		ltree_sms1			
20		+ltree_Environment			
21		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpdeliver.ud) START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_10(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone4)), TCV_chSms)		RP−Data Initiate class 0 MT−SM
22	L_0795	?TIMEOUT T_dly		(F)	
23		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		
24	L_0796	?TIMEOUT T_dly		(F)	
25		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		RP−Ack
26		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
27		(TCV_Res := OO_CheckMessageDisplayed(160, TCV_SMcntns))			
28	L_0797	[NOT TCV_Res]		(F)	
29	L_0798	[TCV_Res]		(P)	
		ltree_sms2			
30		+ltree_Environment			
31		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_06(TCV_RPOA_MT, TCV_TPOA1, TCV_Rpmr, C_Tzone4)), TCV_chSms)		RP−Data Initiate class 1 MT−SM
32	L_0799	?TIMEOUT T_dly		(F)	
33		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		
34	L_0800	?TIMEOUT T_dly		(F)	
35		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		RP−Ack
36		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))		RP−Error: Memory Capacity Exc.
38		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
39		(TCV_MemCapExcd := TRUE)			
		ltree_set_sapi3_SDCCH_MT			
40		L!DL_EstRq	DLEstRq(TCV_ch)		
41		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_5_2

Group : SM/

Purpose : To verify that the MS acts correctly on receiving a class 1 message, i.e. that it stores the message in the ME or SIM and sends an acknowledgement (at RP and CP−Layer).

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null:=OO_EmptyMessageStorage(), TCV_Null:=OO_MSSetupStoreClass1SMInMEMemory(), TCV_RPOA_MT:='1111111111'O, TCV_TPOA1:= '3333333333'O, TCV_Rpmr:='00'O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_Environment			1
5		+ltree_sms1			
		ltree_Environment			
6		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
7		+ltree_set_sapi3_SDCCH_MT			
8		(TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)			
		ltree_sms1			
9		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpdeliver.ud)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_06(TCV_RPOA_MT, TCV_TPOA1, TCV_Rpmr, C_Tzone5)), TCV_chSms)		RP−Data Initiate class 1 MT−SM
10		START T_dly(25000)			
11	L_0801	?TIMEOUT T_dly		(F)	
12		+ChanRel(TCV_chTch)			
13	L_0802	L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))	(P)	
14		START T_dly(60000)			
15	L_0803	?TIMEOUT T_dly		(F)	
16		+ChanRel(TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17	L_0804	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))	(P)	RP−Ack
18		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
19		+ChanRel(TCV_ch)			
20		(TCV_Res := OO_RecallAndDisplaySM(160, TCV_SMcntns))			
21	L_0805	[NOT TCV_Res]		(F)	
22	L_0806	[TCV_Res]		(P)	
		ltree_set_sapi3_SDCCH_MT			
23		L!DL_EstRq	DLEstRq(TCV_ch)		
24		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_5_3

Group : SM/

Purpose : To verify that the MS acts correctly on receiving a class 2 message, i.e. that it stores the message correctly in the SIM, and if this is not possible, returns a protocol error message, with the correct error cuase, to the network. There are 2 cases. (1) If the MS supports storing of short messages in the SIM and in the ME, and storage in the ME is not full, and the short message cannot be stored in the SIM, the error cause shall be "protocol error, unspecified". (2) If the MS supports storing of short message in the SIM and not in the ME and short message cannot be stored in the SIM, the error cause shall be "memory capacity exceeded".

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null := OO_EmptyMessageStorage(), TCV_Null := OO_MSSetupStoreClass1SMInMEMemory(), TCV_Null := OO_ConnectSIMSimulator(), TCV_RPOA_MT := ’1111111111’O, TCV_TPOA1:= ’3333333333’O, TCV_Rpmr:= ’00’O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_sms1			1
5		+ltree_sms2			
6		+ltree_Release			
7		+ltree_sms1			
8		+ltree_sms3			
9		+ChanRel_end(TCV_ch)			
		ltree_Release			
10		+ChanRel(TCV_ch)			
11		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_Environment			
12		+Wait(C_T_Wait1)			
13		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
14		+ltree_set_sapi3_SDCCH_MT			
15		(TCV_ti_v_2:=’000’B, TCV_chSms:=TCV_ch)			
		ltree_sms1			
16		+ltree_Environment			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_05(TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone0)), TCV_chSms)		CP−DATA(RP−Data SMS DELIVER), n−>ms class 2 MT−SM
18	L_0807	?TIMEOUT T_dly		(F)	
19		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		CP−ACK ms−>n
		ltree_sms2			
20		(TCV_Res := OO_SIMSimulAttIndOK())			ME attempt to strore SM on SIM? Status OK (’9000’)
21	L_0808	[NOT TCV_Res]		(F)	
22		[TCV_Res]			
23	L_0809	?TIMEOUT T_dly		(F)	
24		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		CP−DATA(RP−Ack) ms−>n
25		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
		ltree_sms3			
26		(TCV_Res := OO_SIMSimulAttIndMemProblem())			ME attempt to strore SM on SIM? Status ’memory problem’ (’9240’)
27	L_0810	[NOT TCV_Res]		(F)	
28		[TCV_Res]			
29		[TSPC_StoreRcvSMSME]			
30	L_0811	?TIMEOUT T_dly		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_07(TCV_Rpmr)))		CP−DATA(RP−Error: Protocol Error, unspecified)
32		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
33		[NOT TSPC_StoreRcvSMSME]			
34	L_0812	?TIMEOUT T_dly		(F)	
35		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))		CP−DATA(RP−Error: Memory capacity exceeded)
36		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		CP−ACK n−>ms
		ltree_set_sapi3_SDCCH_MT			
37		L!DL_EstRq	DLEstRq(TCV_ch)		
38		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_7
Group : SM/
Purpose : To verify the correct implementation of the replace mechanism for Replace Short Messages.
Configuration :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null:=OO_EmptyMessageStorage(), TCV_TPOA1:='1111111111'O, TCV_TPOA2:='2222222222'O, TCV_RPOA1:='3333333333'O, TCV_RPOA2:='4444444444'O, TCV_Rpmr:='00'O)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		REPEAT ltree_RandomTypes UNTIL [NOT(TCV_SMTypeM = TCV_SMTypeN)]			
5	body	+ltree_part1			
6		+ChanRel_end(TCV_ch)			
		ltree_RandomTypes			
7		(TCV_SMTypeM:=OC_Random(1, 7), TCV_SMTypeN:=OC_Random(1, 7))			
		ltree_part1			
8		+ltree_sms1("First short message. ")			
9		+ltree_Release			
10		+ltree_sms1("Second short message. ")			
11		+ltree_Release			
12		+ltree_sms1("Third short message. ")			
13		+ltree_Release			
14		+ltree_sms1("Fourth short message. ")			
15		+ltree_Release			
16		+ltree_sms1("Fifth short message. ")			
17		(TCV_Res := OO_CheckAllSMPresentBut4th())			
18	L_0813	[NOT TCV_Res]		(F)	
19	L_0814	[TCV_Res]		(P)	
		ltree_Release			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+ChanRel(TCV_ch)			
21		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_Environment			
22		+Wait(C_T_Wait1)			
23		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
24		+ltree_set_sapi3_SDCCH_MT			
25		(TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)			
		ltree_sms1(text: IA5String)			
26		+ltree_Environment			
27		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_16(TCV_TPOA1, TCV_RPOA1, TCV_SMTypeN, text, TI_07(TCV_ti_v_2), TCV_Rpmr, C_Tzone1), TCV_chSms)		RP−Data
28	L_0815	?TIMEOUT T_dly		(F)	
29		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))		
30	L_0816	?TIMEOUT T_dly		(F)	
31		L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))		RP−Ack
32		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
		ltree_set_sapi3_SDCCH_MT			
33		L!DL_EstRq	DLEstRq(TCV_ch)		
34		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_2_8

Group : SM/

Purpose : To verify that the MS is able to send a Reply Short Message back to the correct originating SME even if in the meantime it receives another Short Message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_Null := OO_EmptyMessageStorage(), TCV_RPOA1 := ’1111111111’O, TCV_RPOA2 := ’2222222222’O, TCV_RPDA_MT := ’3333333333’O, TCV_TPOA1 := ’4444444444’O, TCV_TPOA2 := ’5555555555’O, TCV_RPOA_MO := TCV_RPDA_MT, TCV_RPDA_MO := TCV_RPOA1, TCV_TPDA := TCV_TPOA1, TCV_Rpmr := ’00’O)			n−>ms, 1st SM n−>ms, 2nd SM n−>ms, both n−>ms, 1st SM n−>ms, 2nd SM ms−>n, both ms−>n,1 st reply ms−>n,1 st reply
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_part1			
5		+ltree_part2			
6		+ChanRel_end(TCV_ch)			
		ltree_Release			
7		+ChanRel(TCV_ch)			
8		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		ltree_Environment1			
9		+Wait(C_T_Wait1)			
10		+RRmtcallprepare(TimingAdv(0), TSPX_RANDDef)			
11		+ltree_set_sapi3_SDCCH_MT			
12		(TCV_ti_v_2 := ’000’B, TCV_chSms := TCV_ch)			
		ltree_Environment2			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
13		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
14		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
15		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
16		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_09)		
17		ACTIVATE(OtherEventsFail)			Restore normal default tree
18		+Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)			
19		+Ciphering_on(TCV_ch)			
20		+ltree_set_sapi3_SDCCH_MO			
		ltree_part1			
21		+ltree_sms1(TCV_TPOA1, TCV_RPOA1, "The first short message. ")			
22		(TCV_CB1 := TCV_SMcntns)			
23		+ltree_Release			
24		[TSPC_StoreRcvSMSME OR TSPC_StoreRcvSMSSIM]			SM can be stored
25		+ltree_sms1(TCV_TPOA2, TCV_RPOA2, "The second short message. ")			
26		(TCV_CB2 := TCV_SMcntns)			
27		+ltree_Release			
28		[NOT (TSPC_StoreRcvSMSME) AND NOT (TSPC_StoreRcvSMSSIM)]			SM cannot be stored
		ltree_part2			
29		(TCV_CB3 := OO_DisplaySMAndSendReplySM(1, 160, TCV_CB1))			TCV_CB3 holds the 1st reply data
30		+ltree_sms2(TCV_CB3)			Reply SM
31		+ltree_Release			
32		[TSPC_StoreRcvSMSME OR TSPC_StoreRcvSMSSIM]			SM can be stored

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		(TCV_RPDA_MO := TCV_RPOA2, TCV_TPDA := TCV_TPOA2, TCV_CB4 := OO_DisplaySMAndSendReplySM(2, 160, TCV_CB2))			
34		+ltree_sms2(TCV_CB4)			Reply SM
35		[NOT (TSPC_StoreRcvSMSME) AND NOT (TSPC_StoreRcvSMSSIM)]			SM cannot be stored
		ltree_sms1(tpoa1: BCDN; rpoa_mt: BCDN; text: IA5String)			
36		+ltree_Environment1			
37		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpdeliver.ud) START T_dly(25000)	DatRqCpData(CpDataPdu_17(tpoa1, rpoa_mt, text, TI_07(TCV_ti_v_2), TCV_Rpmr, C_Tzone6), TCV_chSms)		RP−Data
38	L_0817	?TIMEOUT T_dly		(F)	
39	L_0818	L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))	(P)	
40	L_0819	?TIMEOUT T_dly		(F)	
41	L_0820	L?DL_DatInCpData CANCEL T_dly	DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))	(P)	RP−Ack
42		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)		
		ltree_sms2(tpud : TPUD)			
43		+ltree_Environment2			
44		L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)	DatInCpData(TCV_chSms, CpDataPdu_18(TCV_TPDA,TCV_RPDA_MT, tpud))		RP−Data, TP−submit
45		L!DL_DatRqCpDataAck	DatRqCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v)), TCV_chSms)		
46		L!DL_DatRqCpData START T_dly(25000)	DatRqCpData(CpDataPdu_02(TI_08(TCV_ti_v), CpData_04(TCV_Rpmr)), TCV_chSms)		RP−Ack
47	L_0821	?TIMEOUT T_dly		(F)	
48	L_0822	L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v)))	(P)	
		ltree_set_sapi3_SDCCH_MT			
49		L!DL_EstRq	DLEstRq(TCV_ch)		
50		L?DL_EstCo	DLEstCo(TCV_ch)		
		ltree_set_sapi3_SDCCH_MO			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
51		L?DL_EstIn	DLEstInd_2(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour

Test Case Name : TC_34_3

Group : SM/

Purpose : This test verifies that an MS is able to receive SMS−CB messages.
This test verifies that a MS is able to respond to a paging requested during the transmission of a cell broadcast short message.

Configuration :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_guard(300)			
2		(TCV_CBch := C_CBCH_A)			
3		+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_0, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_cbms, C_NCCP_2)			
4	body	+ltree_body			
		ltree_body			
5		+SendSMSCBMessage(SerialNumber_01)			Send cell broadcast message
6		(TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))			
7	L_0823	[NOT TCV_Res]		(F)	
8	L_0824	[TCV_Res]		(P)	
9		+SendSMSCBMessage(SerialNumber_02)			Send cell broadcast message
10		(TCV_Res := OO_CheckCBSMReceived(93,TCV_SMSCBpack))			
11	L_0825	[NOT TCV_Res]		(F)	
12	L_0826	[TCV_Res]		(P)	
13		+SendSMSCBMessage(SerialNumber_03)			Send cell broadcast message
14		(TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))			

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15	L_0827	[NOT TCV_Res]		(F)	
16	L_0828	[TCV_Res]		(P)	
17		+ltree_body2			
		ltree_body2			
18		+SendSMSCBMessage(SerialNumber_01)			Send cell broadcast message
19		(TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))			
20	L_0829	[NOT TCV_Res]		(F)	
21	L_0830	[TCV_Res]		(P)	
22		(TCV_Null := OM_SendSMSCBWhilePaging(TCV_CBch))			Send cell broadcast message while paging
23		+SendSMSCBMessage(SerialNumber_02)			Send cell broadcast message
24		+localtree			
25		(TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))			
26		[NOT TCV_Res]			
27		+localtree2			
28	L_0831	[TCV_Res]		(P)	
29		+localtree2			
		localtree2			
30		+SendSMSCBMessage(SerialNumber_03)			Send cell broadcast message
31		(TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))			
32	L_0832	[NOT TCV_Res]		(F)	
33	L_0833	[TCV_Res]		(P)	
		localtree			
34		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
35		START T_dly(5000)			
36	L_0834	?TIMEOUT T_dly		(F)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
37		L?DL_RacInChRq(TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_17)		
38		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
39		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
40		+ChanRel(TCV_ch)			
		SendSMSCBMessage(serial_number : SERIAL_NUMBER)			
41		L!DL_UdatRqSMSCBData(TCV_CB1 := DL_UdatRqSMSCBData.msg.message_contents)	SMSCBReq(TCV_CBch, SMSCB_01(serial_number))		First block
42		L!DL_UdatRqSMSCBData(TCV_CB2 := DL_UdatRqSMSCBData.msg.message_contents)	SMSCBReq(TCV_CBch, SMSCB_02(’0001’B, ’0’B, 17, 38))		Second block, message octets 17 to 38
43		L!DL_UdatRqSMSCBData(TCV_CB3 := DL_UdatRqSMSCBData.msg.message_contents)	SMSCBReq(TCV_CBch, SMSCB_02(’0010’B, ’0’B, 39, 60))		Third block, message octets 39 to 60
44		L!DL_UdatRqSMSCBData(TCV_CB4 := DL_UdatRqSMSCBData.msg.message_contents)	SMSCBReq(TCV_CBch, SMSCB_02(’0011’B, ’1’B, 61, 82))		Fourth and last block, message octets 61 to 82
45		(TCV_SMSCBpack := SMSCBdata(TCV_CB1, TCV_CB2, TCV_CB3, TCV_CB4))			4 blocks data
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : StopAllBCCH
Group : management/
Objective : To stop the RF transmission of all BCCH channels in all active cells.
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_Null := OM_StopAllBCCH(C_BCCH_A_1, C_BCCH_B_1, C_BCCH_C_1, C_BCCH_D_1, C_BCCH_E_1, C_BCCH_F_1, C_BCCH_G_1, C_BCCH_H_1))			
3		[TSPC_DCS]			
4		(TCV_Null := OM_StopAllBCCH(C_BCCH_A_1, C_BCCH_B_1, C_BCCH_C_1, C_BCCH_D_1, C_BCCH_E_1, C_BCCH_F_1, C_BCCH_G_1, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Stopmaindcch(ch_main : LOGICCH; ch_sacch : LOGICCH)
Group : management/
Objective : To stop the transmission of main dcch channel and wait till no more uplink SACCH frame.
Default : OtherEventsFail_01
Comments : ‘ch_main‘ identifying a main dcch channel and ’ch_sacch’ a sacch channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_Deactivate(ch_main, ch_sacch))			
2		(TCV_Null := OM_StartMsrReport(ch_sacch)) START T_dly1(C_T_mrsrp)			1.
3		(TCV_Res := FALSE)			
4		REPEAT ltree_rcvmsr UNTIL [TCV_Res]			
5		(TCV_Null := OM_StopMsrReport(ch_sacch))			
		ltree_rcvmsr			
6		L?DL_UdatInMsrRpt	MsrRept(MsrReport_02)		2.
7		START T_dly1(C_T_mrsrp)			
8	L_0835	?TIMEOUT T_dly1		(P)	
9		(TCV_Res := TRUE)			

Detailed Comments : 1. Wait until there is no more SACCH frames in the uplink direction.
2. If any measurement report message with any contents has been received, restart the timer again. The loop is watched by the T_guard in the default test step OtherEventsFail_01.
This test step is called by TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4.

Test Step Dynamic Behaviour

Test Step Name : CCConfigTCH(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)

Group : management/

Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		+FullRateCh_A_1(acttype, slot, tsc, ChMod(mod), Freqg, Freqd, arfcng , arfcnd, ta, babr, cch_con, bpm)			
3		[TCV_ChRate = C_Half]			2.
4		+HalfRateCh_A_1(sub, acttype, slot, tsc, ChMod(mod), Freqg, Freqd, arfcng , arfcnd, ta, babr, cch_con, bpm)			

Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel.
2. Half rate channel needed, to setup the physical channel as half rate traffic channel.

Test Step Dynamic Behaviour

Test Step Name : CCConfigTCH_B(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)

Group : management/

Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		[arfcng <> C_Noarfcn]			
3		+FullRateCh_B_1(acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			
9		+FullRateCh_B_1(acttype, slot, tsc, ChMod(mod), Freqg , Freqd, ta, babr, cch_con, bpm)			
10		[TCV_ChRate = C_Half]			2.
11		[arfcng <> C_Noarfcn]			
12		+HalfRateCh_B_1(sub, acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
13		[TSPC_PGSM OR TSPC_EGSM]			
14		(TCV_tch_arfcn:= arfcng)			
15		[TSPC_DCS]			
16		(TCV_tch_arfcn:= arfcnd)			
17		[arfcng = C_Noarfcn]			
18		+HalfRateCh_B_1(sub, acttype, slot, tsc, ChMod(mod), Freqg , Freqd, ta, babr, cch_con, bpm)			

Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel.
2. Half rate channel needed, to setup the physical channel as half rate traffic channel.

Test Step Dynamic Behaviour

Test Step Name : CCConfigTCH_nociph(sub : B_1; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; mod : B_8; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER)

Group : management/

Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		[arfcng <> C_Noarfcn]			
3		+FullRateCh_A_1_nociph(acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			
9		+FullRateCh_A_1_nociph(acttype, slot, tsc, ChMod(mod), Freqg, Freqd, ta, babr, cch_con, bpm)			
10		[TCV_ChRate = C_Half]			2.
11		[arfcng <> C_Noarfcn]			
12		+HalfRateCh_A_1_nociph(sub, acttype, slot, tsc, ChMod(mod), FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
13		[TSPC_PGSM OR TSPC_EGSM]			
14		(TCV_tch_arfcn:= arfcng)			
15		[TSPC_DCS]			
16		(TCV_tch_arfcn:= arfcnd)			
17		[arfcng = C_Noarfcn]			
18		+HalfRateCh_A_1_nociph(sub, acttype, slot, tsc, ChMod(mod), Freqg, Freqd, ta, babr, cch_con, bpm)			

Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel.
2. Half rate channel needed, to setup the physical channel as half rate traffic channel.

Test Step Dynamic Behaviour

Test Step Name : CCConfigTCH_pwr(sub:B_1; acttypeT:BITSTRING; slotT:SN; tscT:TSC; ta:TA; babr, cch_con, bpm:B_3; chmod:B_8; Freqg, Freqd:FRQPARA; mspwr: INTEGER)

Group : management/

Objective : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate. Set power level according to parameter.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TCV_ChRate = C_Full]			1.
2		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := '00001'B)			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_FACCHF_A_1(63, mspwr, ChMod(chmod), acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
5		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
6		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
7		[TSPC_DCS]			
8		+Config_FACCHF_A_1(63, mspwr, ChMod(chmod), acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
9		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
11		[TCV_ChRate = C_Half]			2.
12		(TCV_chTch := OC_SubchOfFacchh(sub, C_CellA, 1), TCV_sacchTch := OC_SubchOfSacchh(sub, C_CellA, 1))			
13		[TSPC_PGSM OR TSPC_EGSM]			
14		+Config_FACCHH_A_1(63, mspwr, ChMod(chmod), acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
15		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
16		+localtree_selTCHH			
17		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
18		[TSPC_DCS]			
19		+Config_FACCHH_A_1(63, mspwr, ChMod(chmod), acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
20		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
21		+localtree_selTCHH			
22		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
		localtree_selTCHH			
23		[sub = '0'B]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
24		(TCV_chtype := ’00010’B)			
25		[sub = ’1’B]			
26		(TCV_chtype := ’00011’B)			
Detailed Comments : 1. Full rate channel needed, to setup a physical channel as full rate traffic channel. 2. Half rate channel needed, to setup the physical channel as half rate traffic channel.					

Test Step Dynamic Behaviour

Test Step Name : Config_CBMS_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH, SDCCH4 and CBCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, C_SDCCH4_A, C_SACCHC4_A, C_CBCH_A))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_A, C_SDCCH40_A, C_SDCCH41_A, C_SDCCH42_A, C_SDCCH43_A, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_A, C_SACCHC40_A, C_SACCHC41_A, C_SACCHC42_A, C_SACCHC43_A, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_1, C_SACCHF_A_1, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_2, C_SACCHF_A_2, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_B_1, C_SACCHF_B_1, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHF_H_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's of cell H.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellH, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_H_1, C_SACCHF_H_1, "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHH_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHH_A_1, C_SACCHH_A_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_FACCHH_A_1, C_FACCHH0_A_1, C_FACCHH1_A_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SACCHH_A_1, C_SACCHH0_A_1, C_SACCHH1_A_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHH_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHH_A_2, C_SACCHH_A_2, "dummy"))			
2		(TCV_Null := OM_Assoc(C_FACCHH_A_2, C_FACCHH0_A_2, C_FACCHH1_A_2, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SACCHH_A_2, C_SACCHH0_A_2, C_SACCHH1_A_2, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_FACCHH_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHH_B_1, C_SACCHH_B_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_FACCHH_B_1, C_FACCHH0_B_1, C_FACCHH1_B_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SACCHH_B_1, C_SACCHH0_B_1, C_SACCHH1_B_1, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, "dummy", "dummy", C_BCCH_A_2, C_PCH_A_2, C_AGCH_A_2, C_RACH_A_2, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_3(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, "dummy", "dummy", C_BCCH_A_3, C_PCH_A_3, C_AGCH_A_3, C_RACH_A_3, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_A_4(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, "dummy", "dummy", C_BCCH_A_4, C_PCH_A_4, C_AGCH_A_4, C_RACH_A_4, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_BCCH_CCCH_B_ho_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B with controlable td and fn.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, td, fn, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, C_SDCCH4_A, C_SACCHC4_A, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_A, C_SDCCH40_A, C_SDCCH41_A, C_SDCCH42_A, C_SDCCH43_A, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_A, C_SACCHC40_A, C_SACCHC41_A, C_SACCHC42_A, C_SACCHC43_A, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, C_SDCCH4_B, C_SACCHC4_B, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_B, C_SDCCH40_B, C_SDCCH41_B, C_SDCCH42_B, C_SDCCH43_B, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_B, C_SACCHC40_B, C_SACCHC41_B, C_SACCHC42_B, C_SACCHC43_B, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_B_ho_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B with controlable ta and fn.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, td, fn, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, C_SDCCH4_B, C_SACCHC4_B, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_B, C_SDCCH40_B, C_SDCCH41_B, C_SDCCH42_B, C_SDCCH43_B, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_B, C_SACCHC40_B, C_SACCHC41_B, C_SACCHC42_B, C_SACCHC43_B, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_C_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellC, C_FCCH_C, C_SCH_C, C_BCCH_C_1, C_PCH_C_1, C_AGCH_C_1, C_RACH_C_1, C_SDCCH4_C, C_SACCHC4_C, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_C, C_SDCCH40_C, C_SDCCH41_C, C_SDCCH42_C, C_SDCCH43_C, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_C, C_SACCHC40_C, C_SACCHC41_C, C_SACCHC42_C, C_SACCHC43_C, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_D_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellD, C_FCCH_D, C_SCH_D, C_BCCH_D_1, C_PCH_D_1, C_AGCH_D_1, C_RACH_D_1, C_SDCCH4_D, C_SACCHC4_D, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_D, C_SDCCH40_D, C_SDCCH41_D, C_SDCCH42_D, C_SDCCH43_D, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_D, C_SACCHC40_D, C_SACCHC41_D, C_SACCHC42_D, C_SACCHC43_D, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_E_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellE, C_FCCH_E, C_SCH_E, C_BCCH_E_1, C_PCH_E_1, C_AGCH_E_1, C_RACH_E_1, C_SDCCH4_E, C_SACCHC4_E, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_E, C_SDCCH40_E, C_SDCCH41_E, C_SDCCH42_E, C_SDCCH43_E, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_E, C_SACCHC40_E, C_SACCHC41_E, C_SACCHC42_E, C_SACCHC43_E, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_F_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellF, C_FCCH_F, C_SCH_F, C_BCCH_F_1, C_PCH_F_1, C_AGCH_F_1, C_RACH_F_1, C_SDCCH4_F, C_SACCHC4_F, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_F, C_SDCCH40_F, C_SDCCH41_F, C_SDCCH42_F, C_SDCCH43_F, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_F, C_SACCHC40_F, C_SACCHC41_F, C_SACCHC42_F, C_SACCHC43_F, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_G_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellG, C_FCCH_G, C_SCH_G, C_BCCH_G_1, C_PCH_G_1, C_AGCH_G_1, C_RACH_G_1, C_SDCCH4_G, C_SACCHC4_G, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_G, C_SDCCH40_G, C_SDCCH41_G, C_SDCCH42_G, C_SDCCH43_G, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_G, C_SACCHC40_G, C_SACCHC41_G, C_SACCHC42_G, C_SACCHC43_G, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH4_H_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellH, C_FCCH_H, C_SCH_H, C_BCCH_H_1, C_PCH_H_1, C_AGCH_H_1, C_RACH_H_1, C_SDCCH4_H, C_SACCHC4_H, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH4_H, C_SDCCH40_H, C_SDCCH41_H, C_SDCCH42_H, C_SDCCH43_H, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_H, C_SACCHC40_H, C_SACCHC41_H, C_SACCHC42_H, C_SACCHC43_H, "dummy", "dummy", "dummy", "dummy"))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH8_A_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SDCCH8_A_1, C_SACCHC8_A_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH8_A_1, C_SDCCH80_A_1, C_SDCCH81_A_1, C_SDCCH82_A_1, C_SDCCH83_A_1, C_SDCCH84_A_1, C_SDCCH85_A_1, C_SDCCH86_A_1, C_SDCCH87_A_1, C_SACCHC8_A_1, C_SACCHC80_A_1, C_SACCHC81_A_1, C_SACCHC82_A_1, C_SACCHC83_A_1, C_SACCHC84_A_1, C_SACCHC85_A_1, C_SACCHC86_A_1, C_SACCHC87_A_1))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH8_A_2(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as SDCCH8 channel for instance 2 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SDCCH8_A_2, C_SACCHC8_A_2, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH8_A_2, C_SDCCH80_A_2, C_SDCCH81_A_2, C_SDCCH82_A_2, C_SDCCH83_A_2, C_SDCCH84_A_2, C_SDCCH85_A_2, C_SDCCH86_A_2, C_SDCCH87_A_2, C_SACCHC8_A_2, C_SACCHC80_A_2, C_SACCHC81_A_2, C_SACCHC82_A_2, C_SACCHC83_A_2, C_SACCHC84_A_2, C_SACCHC85_A_2, C_SACCHC86_A_2, C_SACCHC87_A_2))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Config_SDCCH8_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, ’0’B, ’0’B, C_CellB, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_SDCCH8_B_1, C_SACCHC8_B_1, "dummy"))			
2		(TCV_Null := OM_Assoc(C_SDCCH8_B_1, C_SDCCH80_B_1, C_SDCCH81_B_1, C_SDCCH82_B_1, C_SDCCH83_B_1, C_SDCCH84_B_1, C_SDCCH85_B_1, C_SDCCH86_B_1, C_SDCCH87_B_1, C_SACCHC8_B_1, C_SACCHC80_B_1, C_SACCHC81_B_1, C_SACCHC82_B_1, C_SACCHC83_B_1, C_SACCHC84_B_1, C_SACCHC85_B_1, C_SACCHC86_B_1, C_SACCHC87_B_1))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_A_CBMS(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.

Default : OtherEvents

Comments : time slot = 0, ARFCN = 20 (GSM900) or ARFCN = 590 (DCS1800) cell A for RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_CBMS_A_1(par_bspwr,mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_CBMS_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_A(par_bspwr , mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_B_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_B_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_B_ho(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_B_ho_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm, td, fn)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_B_ho_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm, td, fn)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_C_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_C_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_D(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_D_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_D_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_E(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_E_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_E_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_F(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_F_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_F_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_G(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2: INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_G_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_G_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_G_sp(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2, arfcn3 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM]			1.
2		+Config_SDCCH4_G_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_EGSM]			1.
4		+Config_SDCCH4_G_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
5		[TSPC_DCS]			2.
6		+Config_SDCCH4_G_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn3), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : CombinedBCCH_H(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_SDCCH4_H_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_H_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as FCHH_SCH_BCCH_CCCH for cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_A_2(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_2(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_2, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_2(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_2, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_A_3(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments : time slot = 4, ARFCN = TSPX_BCCHcarrierA

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_3(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_3, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_3(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_3, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_A_4(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A.

Default : OtherEvents

Comments : time slot = 6, ARFCN = TSPX_BCCHcarrierA

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_A_4(63, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnA), C_BCCH_CCCH_4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_A_4(63, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(C_arfcnAd), C_BCCH_CCCH_4, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_B_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_B_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm)			

Detailed Comments : 1. For P−GSM900.
1.1 Frequenz and cell_id for cell B in HO cases
2. For DCS1800.
2.1 Frequenz and cell_id for cell B in HO cases

Test Step Dynamic Behaviour

Test Step Name : NonCombinedBCCH_B_ho(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3; td, fn : INTEGER)

Group : management/

Objective : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			1.
2		+Config_BCCH_CCCH_B_ho_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm, td, fn)			
3		[TSPC_DCS]			2.
4		+Config_BCCH_CCCH_B_ho_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm, td, fn)			

Detailed Comments : 1. For P−GSM900.
1.1 Frequenz and cell_id for cell B in HO cases
2. For DCS1800.
2.1 Frequenz and cell_id for cell B in HO cases

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_1(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			Non hopping
2		+FullRateCh_A_1_nociph(acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			Hopping
9		+FullRateCh_A_1_nociph(acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_1_nociph(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_chtype := '00001'B)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_FACCHF_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_2(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1.

Default : OtherEvents

Comments : used as after time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FullRateCh_A_2_nociph(acttypeT, slotT, tscT, chmod, Freqg ,Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch1, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_A_2_nociph(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1.

Default : OtherEvents

Comments : used as after time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1 := C_SACCHF_A_2)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_A_2(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_2, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_FACCHF_A_2(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_2, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_B_1(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.

Default : OtherEvents

Comments : FullRateCh_B_1.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FullRateCh_B_1_nociph(acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_B_1_pwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; pwrg, pwrd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.

Default : OtherEvents

Comments : Power levels passed as params

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FullRateCh_B_1_nociph_pwr(acttypeT, slotT, tscT, chmod, Freqg, Freqd, pwrg, pwrd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_B_1_nociph(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.

Default : OtherEvents

Comments : Used in TC_26_6_13_5 for after time channel

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_B_1, TCV_sacchTch := C_SACCHF_B_1)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_B_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
5		[TSPC_DCS]			
6		+Config_FACCHF_B_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : FullRateCh_B_1_nociph_pwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; pwrg, pwrd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.

Default : OtherEvents

Comments : Power levels passed as params

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_B_1, TCV_sacchTch := C_SACCHF_B_1)			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHF_B_1(63, pwrg, chmod, acttypeT, slotT, tscT, Freqg, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
5		[TSPC_DCS]			
6		+Config_FACCHF_B_1(63, pwrd, chmod, acttypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_A_1(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; arfcng , arfcnd : INTEGER; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			not hopping
2		+HalfRateCh_A_1_nociph(sub, acttypeT, slotT, tscT, chmod, FreqTCH(arfcng) , FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
3		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_tch_arfcn:= arfcng)			
6		[TSPC_DCS]			
7		(TCV_tch_arfcn:= arfcnd)			
8		[arfcng = C_Noarfcn]			hopping
9		+HalfRateCh_A_1_nociph(sub, acttypeT, slotT, tscT, chmod, Freqg , Freqd, ta, babr, cch_con, bpm)			
10		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_A_1_nociph(sub : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfFacchh(sub, C_CellA, 1), TCV_sacchTch := OC_SubchOfSacchh(sub, C_CellA, 1))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHH_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		+localtree			
6		[TSPC_DCS]			
7		+Config_FACCHH_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
8		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
9		+localtree			
		localtree			
10		[sub = '0'B]			
11		(TCV_chtype := '00010'B)			
12		[sub = '1'B]			
13		(TCV_chtype := '00011'B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_A_2(bstring : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1.

Default : OtherEvents

Comments : used for after time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+HalfRateCh_A_2_nociph(bstring, acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch1, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_A_2_nociph(bstring : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1.

Default : OtherEvents

Comments : used for after time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch1 := OC_SubchOfFacchh(bstring, C_CellA, 2), TCV_sacchTch1 := OC_SubchOfSacchh(bstring, C_CellA, 2))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHH_A_2(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_FACCHH_A_2(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_B_1(bstring : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell B

Default : OtherEvents

Comments : used as after time channel assigned by handover command

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+HalfRateCh_B_1_nociph(bstring, acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : HalfRateCh_B_1_nociph(bstring : B_1; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as TCHH_ACCH's for instance 1 of cell B

Default : OtherEvents

Comments : used as after time channel assigned by handover command

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfFacchh(bstring, C_CellB, 1), TCV_sacchTch := OC_SubchOfSacchh(bstring, C_CellB, 1))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_FACCHH_B_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
5		[TSPC_DCS]			
6		+Config_FACCHH_B_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SDCCH8_A_1(bstring : BITSTRING; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+SDCCH8_A_1_nociph(bstring, acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_ch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SDCCH8_A_1_nociph(bstring : B_3; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as SDCCH8 channel for instance 1 of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_ch := OC_SubchOfSdcch8(bstring, C_CellA, 1), TCV_sacch8 := OC_SubchOfSacch8(bstring, C_CellA, 1))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_SDCCH8_A_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_SDCCH8_A_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SDCCH8_A_2_nociph(bstring : B_3; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as hopping SDCCH8 channel for instance 2 of cell A, for TC_26_6_13_1.

Default : OtherEvents

Comments : hopping parameters are from PIXIT, used as before time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfSdcch8(bstring, C_CellA, 2), TCV_sacchTch := OC_SubchOfSacch8(bstring, C_CellA, 2))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_SDCCH8_A_2(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCHC8_2, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			
5		[TSPC_DCS]			
6		+Config_SDCCH8_A_2(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCHC8_2, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SDCCH8_B_1(bstring : B_3; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+SDCCH8_B_1_nociph(bstring, acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)			
2		(TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SDCCH8_B_1_nociph(bstring : B_3; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3)

Group : management/

Objective : To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B For TC_26_6_13_5.

Default : OtherEvents

Comments : hopping parameters are from PIXIT, used by handover command after time channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := OC_SubchOfSdcch8(bstring, C_CellB, 1), TCV_sacchTch := OC_SubchOfSacch8(bstring, C_CellB, 1))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		+Config_SDCCH8_B_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
4		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
5		[TSPC_DCS]			
6		+Config_SDCCH8_B_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Adjust_gsmanddcs_powerlvl(powerlevel1,powerlevel2 : INTEGER)

Group : Miscellaneous/

Objective :

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_AssCmd.pcmd := Pcmd_19(INT_TO_BIT(powerlevel1,5)))			
3		[TSPC_DCS]			
4		(TCV_AssCmd.pcmd := Pcmd_19(INT_TO_BIT(powerlevel2,5)))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : AOC_CHK_FAC(ti : TI)

Group : Miscellaneous/

Objective : Reception of FACILITY and callinh check_AOCCackTime

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(ti))		
2		(TCV_Fn := OM_ReturnFn(TCV_chTch))			1.
3	L_0836	L?DL_DatInFac (TCV_Fn1 := DL_DatInFac.fn) CANCEL T_dly1	FacilityRcv(FacilityPdu_26(ti, facilityIErcv(FwdChAdvRslt_01)))	(P)	2.
4		+Check_Time(C_T_Wait_FAC)			
5	L_0837	?TIMEOUT T_dly1		(F)	
6		+PostLinkRelEnd(TCV_chTch)			
7	L_0838	L?DL_DatInFac (TCV_Fn1 := DL_DatInFac.fn)	FacilityRcv(FacilityPdu_26(ti, facilityIErcv(FwdChAdvRslt_01)))	(P)	2.
8		(TCV_Fn := OM_ReturnFn(TCV_chTch))			1.
9		L?DL_DatInConnAck CANCEL T_dly1	ConnAckRcv(ConnectAck_02(ti))		
10		+Check_Time(C_T_Wait_FAC)			
11	L_0839	?TIMEOUT T_dly1		(F)	
12		+PostLinkRelEnd(TCV_chTch)			
13	L_0840	?TIMEOUT T_dly1		(F)	
14		+PostLinkRelEnd(TCV_chTch)			

Detailed Comments : 1. Get the first frame number for transmitting of CONNECT message containing AOC information.
2. TCV_Fn1 contains the first frame number of the received FACILITY message with AOC acknowledge from mobile.

Test Step Dynamic Behaviour

Test Step Name : AssCh_complete(oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU)

Group : Miscellaneous/

Objective : To provide a generic test step to Assign a traffic channel. Assign complete expected and verdict is PASS.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
2	L_0841	?TIMEOUT T_dlyAss		(F)	
3		+PostLinkRelEnd(oldch)			
4		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(newch)		
5	L_0842	L?DL_DatInAssCom	AssCmp(newch, AsgnCmp_02)	(P)	
6		L!MDL_RelRq	MDLRelReq(oldch)		
7		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(oldch)		
8	L_0843	L?DL_DatInAssfl	AssFl_any_cau(oldch)	(F)	
9		+PostLinkRelEnd(oldch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : AssCh_failure(ch : LOGICCH; pdu_ass: ASS_CMD_PDU; any : BOOLEAN)

Group : Miscellaneous/

Objective : To provide a generic test step to Assign a traffic channel. Assign failure expected and verdict is PASS.

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqAssCmd START T_dlyAss(4000)	AssCmd(ch,pdu_ass)		
2		[any]			
3	L_0844	?TIMEOUT T_dlyAss		(F)	
4		+PostLinkRelEnd(ch)			
5		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)		
6	L_0845	L?DL_DatInAssfl	AssFl_any_cau(ch)	(P)	
7		[NOT any]			
8	L_0846	?TIMEOUT T_dlyAss		(F)	
9		+PostLinkRelEnd(ch)			
10		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)		
11	L_0847	L?DL_DatInAssfl	AssFl_02(ch)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : AssCmdGen(cell : CellID; rate : IA5String; slot : SN; tsc : TSC; sch : B_1)
Group : Miscellaneous/
Objective : To generate the ASSIGNMENT COMMAND message.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[rate <> C_Half]			Full rate
2		(TCV_Tchtype := ’00001’B)			
3		+ltree_Asgn			
4		[rate = C_Half]			Half rate
5		[sch = ’0’B]			
6		(TCV_Tchtype := ’00010’B)			
7		+ltree_Asgn			
8		[sch = ’1’B]			
9		(TCV_Tchtype := ’00011’B)			
10		+ltree_Asgn			
		ltree_Asgn			
11		[cell = C_CellA]			
12		+ltree_AsgnTchA			
13		[cell = C_CellB]			
14		+ltree_AsgnTchB			
		ltree_AsgnTchA			
15		[TSPC_PGSM OR TSPC_EGSM]			
16		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 7, C_arfcn_tchA, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
17		[TSPC_DCS]			
18		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 3, C_arfcn_tchAd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
		ltree_AsgnTchB			
19		[TSPC_PGSM OR TSPC_EGSM]			
20		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 7, C_arfcn_tchB, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
21		[TSPC_DCS]			
22		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, slot, tsc, 3, C_arfcn_tchBd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			

Detailed Comments : The test step makes the assumption that the channel rate is known when the test step is called.

Test Step Dynamic Behaviour

Test Step Name : AssCmdGen_fh(rate : IA5String; slot : SN; tsc : TSC; sch : B_1; par_pwlvlg, par_pwlvld : INTEGER; maio : MAIO; hsn : HSN; frql_g, frql_d : FRQL; cchd_g, cchd_d : CCHD; chmod : CHMOD; ma_g, ma_d : MA; Cphms : CPHMS)

Group : Miscellaneous/

Objective : To generate a ASSIGNMENT COMMAND message in case of hopping without starting time.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[rate <> C_Half]			Full rate
2		(TCV_Tchtype := ’00001’B)			
3		+ltree_Asgn			
4		[rate = C_Half]			Half rate
5		[sch = ’0’B]			
6		(TCV_Tchtype := ’00010’B)			
7		+ltree_Asgn			
8		[sch = ’1’B]			
9		(TCV_Tchtype := ’00011’B)			
10		+ltree_Asgn			
		ltree_Asgn			
11		[TSPC_PGSM OR TSPC_EGSM]			
12		(TCV_AssCmd := AsgnCmd_fh(slot, tsc, TCV_Tchtype, par_pwlvlg, maio, hsn, frql_g, cchd_g, chmod, ma_g, Cphms))			
13		[TSPC_DCS]			
14		(TCV_AssCmd := AsgnCmd_fh(slot, tsc, TCV_Tchtype, par_pwlvld, maio, hsn, frql_d, cchd_d, chmod, ma_d, Cphms))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Authentication(ch: LOGICCH; cksn: BITSTRING; rand : RAND)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqAuthRq	AuthReq(ch, AuthRequest(cksn, rand))		
2		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
3		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
4	L_0848	[NOT TCV_Res]		(F)	1)
5	L_0849	[TCV_Res]		(P)	

Detailed Comments : Authentication fails.

Test Step Dynamic Behaviour

Test Step Name : CalcFirstFNofBlock(fn : FN; chtype_targetch : CH_TDMA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments : To calculate the value of the first FN of the block used to send a layer 3 message.Insert result into TCV_Fn2.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_bits1 := OC_LeastBits(chtype_targetch, 3))			See GSM 04.08, section 10.5.2.5
2		(TCV_bits2 := OC_MostBits(chtype_targetch, 3))			
3		+ltree_Calc(TCV_bits1, TCV_bits2)			
		ltree_Calc(lowbits, highbits : BITSTRING)			
4		[highbits = ’000’B]			
5		[lowbits = ’001’B]			TCH/F + ACCHs case
6		+ltree_tchf			
7		[C_Yes]			TCH/H + ACCHs case
8		+ltree_tchh			
9		[C_Yes]			
10		[highbits = ’001’B]			SDCCH /4 + SACCH/ C4 case.
11		+ltree_sdcch4			
12		[C_Yes]			SDCCH /8 + SACCH/ C8 case.
13		+ltree_sdcch8			
		ltree_tchf			
14		+FnCalc(fn)			Calculate frame number from structure d fn type
15		(TCV_temp := (TCV_FrameNumber MOD 13))			Repeat period for TCH/F is 13 frames
16		[(TCV_temp = 7) OR (TCV_temp = 11)]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		(TCV_Fn2 := OC_FnInc(fn, (0−7)))			Calculate the first FN of the message .
18		[C_Yes]			
19		(TCV_Fn2 := OC_FnInc(fn, (0−8)))			Calculate the first FN of the message .
		ltree_tchh			
20		+FnCalc(fn)			
21		(TCV_temp := (TCV_FrameNumber MOD 13))			
22		[((TCV_temp = 10) OR (TCV_temp = 11))]			
23		(TCV_Fn2 := OC_FnInc(fn, (0−10)))			Calculate the first FN of the message .
24		[C_Yes]			
25		(TCV_Fn2 := OC_FnInc(fn, (0−11)))			Calculate the first FN of the message .
		ltree_sdcch8			
26		(TCV_Fn2 := OC_FnInc(fn, (0−3)))			Calculate the first FN of the message .
		ltree_sdcch4			
27		(TCV_Fn2 := OC_FnInc(fn, (0−3)))			Calculate the first FN of the message .

Detailed Comments : Possible values of channel type as per GSM 04.08, 10.5.2.5:’00001’B TCH/F + ACCHs’0001T’B TCH/H + ACCHs’001TT’B SDCCH/4 + SACCH/C4 or CBCH (SDCCH/4)’01TTT’B SDCCH/8 + SACCH/C8 or CBCH (SDCCH/8)where T is any value.See GSM 05.02, section 7, Mapping of logical channels onto physical channels.

Test Step Dynamic Behaviour

Test Step Name : CallProcGen(setup : SETUP_MO_PDU; srv : SERVICES)

Group : Miscellaneous/

Objective : To generate a CALL PROCEEDING message which is compatible with input value 'setup'..

Default : OtherEvents

Comments : The generated CALL PROCEEDING is in TCV_CallProc. This test step can handle the following dual mode services: the first BCAP is speech or the second BCAP is speech

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_CallProc := CallProced_03, TCV_CallProc.ti := TCV_TI)			
2		[(srv = C_AltSpchData) OR (srv = C_SpchData) OR (srv = C_AltSpchFax)]			dual service
3		[setup.bcap1.itc = C_Speech]			1st BCAP is speech
4		(TCV_ce3 := setup.bcap2.ce)			
5		[(TCV_ce3 <> C_BothT) OR (TCV_ce3 <> C_BothNT)]			1.
6		[(TCV_ce3 = C_BothT) OR (TCV_ce3 = C_BothNT)]			2.
7		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.rchr := '00'B, TCV_CallProc.bcri := setup.bcri, TCV_CallProc.bcap2 := setup.bcap2, TCV_CallProc.bcap2.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap2.ce) −2), 2), TCV_CallProc.bcap2.nirr := C_nirr_nomeaning)			
8		[NOT (setup.bcap1.itc = C_Speech)]			
9		(TCV_ce1 := setup.bcap1.ce)			
10		[(TCV_ce1 <> C_BothT) AND (TCV_ce1 <> C_BothNT)]			3.
11		[(TCV_ce1 = C_BothT) OR (TCV_ce1 = C_BothNT)]			4.
12		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap1.ce) −2), 2), TCV_CallProc.bcap1.nirr := C_nirr_nomeaning, TCV_CallProc.bcri := setup.bcri, TCV_CallProc.bcap2 := setup.bcap2, TCV_CallProc.bcap2.rchr := '11'B)			
13		[(srv <> C_AltSpchData) AND (srv <> C_SpchData) AND (srv <> C_AltSpchFax)]			
14		[srv = C_EmgCall]			8.
15		[srv <> C_EmgCall]			
16		[setup.bcap1.itc = C_Speech]			5.
17		[setup.bcap1.itc <> C_Speech]			
18		(TCV_ce1 := setup.bcap1.ce)			
19		[(TCV_ce1 = C_BothT) OR (TCV_ce1 = C_BothNT)]			6.
20		(TCV_CallProc.bcap1 := setup.bcap1, TCV_CallProc.bcap1.ce := INT_TO_BIT((BIT_TO_INT(setup.bcap1.ce) −2), 2), TCV_CallProc.bcap1.nirr := C_nirr_nomeaning)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		[(TCV_ce1 <> C_BothT) OR (TCV_ce1 <> C_BothNT)]			7.

Detailed Comments :
1. BCAP1 is speech and BCAP2 does not reqire negotiation, the CallProc will contain no BCAP's
2. BCAP1 is speech and BCAP2 requires negotiation
3. BCAP2 is speech and BCAP1 does not reqire negotiation, the CallProc will contain no BCAP's
4. BCAP2 is speech and BCAP1 requires negotiation
5. BCAP2 does not exist and BCAP1 is speech, the CallProc will contain no BCAP's
6. BCAP2 does not exist and BCAP1 requires negotiation
7. BCAP2 does not exist and BCAP1 does not require negotiation
8. Emergency call, the CallProc will contain no BCAP

Test Step Dynamic Behaviour

Test Step Name : CCAssignTCH(slot : SN; tsc : TSC)

Group : Miscellaneous/

Objective : Send assign command TCH/H or TCH/F depending on TCV_ChRate and wait for establishment indication. This is used in CC testing.

Default : OtherEvents

Comments : The calling tree prepare three variables for the step: TCV_ChRate for the type of the channel, TCV_chMod with th channel mode IE for the channel, TCV_chTch contains the identifier fot the traffic channel and TCV_chtype the channel type.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod), TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))			
2		+ltree_Asgn			1.
3		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			2. 3.
		ltree_Asgn			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, slot, tsc, 7, C_arfcn_tchA, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
6		[TSPC_DCS]			
7		(TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, slot, tsc, 3, C_arfcn_tchAd, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			

Detailed Comments :
1. To assign the suitable traffic channel to the MS.
2. ASSIGN COMMAND with channel mode, channel description and power command. The channel mode and type (TCH/H or TCH/F) and power command are supplied as parameter.
3. Different power command for DCS.

Test Step Dynamic Behaviour

Test Step Name : CCCH_group_Paging_group(ccd: CCD; imsi: HEXSTRING)

Group : Miscellaneous/

Objective : To calculate the CCCH group and the Paging group from the IMSI and the Control Channel Descriptor according to GSM 05.02, subclause 6.5.2.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ccd.ccch_con = ’000’B]			
2		(TCV_bs_cc_chans := 1)			
3		+localtree1			
4		[ccd.ccch_con = ’001’B]			
5		(TCV_bs_cc_chans := 1)			
6		+localtree1			
7		[ccd.ccch_con = ’010’B]			
8		(TCV_bs_cc_chans := 2)			
9		+localtree1			
10		[ccd.ccch_con = ’100’B]			
11		(TCV_bs_cc_chans := 3)			
12		+localtree1			
13		[ccd.ccch_con = ’110’B]			
14		(TCV_bs_cc_chans := 4)			
15		+localtree1			
		localtree1			
16		(TCV_bs_ag_blks_res := BIT_TO_INT(ccd.babr), TCV_bs_pa_mfrms := (2 + BIT_TO_INT(ccd.bpm)))			
17		[ccd.ccch_con = ’001’B]			i.e. combined
18	L_0850	[(TCV_bs_ag_blks_res < 0) OR (TCV_bs_ag_blks_res > 2)]		I	Stop! A tester error.
19		[(TCV_bs_ag_blks_res >= 0) AND (TCV_bs_ag_blks_res <= 2)]			
20		(TCV_tmp := 3 − TCV_bs_ag_blks_res)			
21		+localtree2			
22		[ccd.ccch_con <> ’001’B]			i.e. not combined
23	L_0851	[(TCV_bs_ag_blks_res < 0) OR (TCV_bs_ag_blks_res > 7)]		I	Stop! A tester error.
24		[(TCV_bs_ag_blks_res >= 0) AND (TCV_bs_ag_blks_res <= 7)]			
25		(TCV_tmp := 9 − TCV_bs_ag_blks_res)			
26		+localtree2			ini. TCV Pgg
		localtree2			
27		(TCV_tmp := TCV_tmp * TCV_bs_pa_mfrms)			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
28		(TCV_Pgg := INT_TO_BIT((((OC_BCDtoInt(imsi, 3)) MOD (TCV_bs_cc_chans * TCV_tmp)) MOD TCV_tmp), 8), TCV_Ccchg := (((OC_BCDtoInt(imsi, 3)) MOD (TCV_bs_cc_chans * TCV_tmp)) / TCV_tmp))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCEstablishMO_SDCCH4(sub : B_2; ta : TA)
Group : Miscellaneous/
Objective : Establish a MO SDCCH/4 connection. This is used in CC testing
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_19)		
2		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		1.

Detailed Comments : 1. To assign a SDCCH/4.

Test Step Dynamic Behaviour

Test Step Name : CCEstablishMO_TCH(slot : SN; tsc : TSC; ta : TA)
Group : Miscellaneous/
Objective : Establish a MO TCH/F or TCH/H connection. This is used in CC testing
Default : OtherEvents
Comments : The calling tree shall prepare one variable for the step: TCV_ChRate for the type of the channel. TCV_chTch contains the identifier for the traffic channeland TCV_cht the channel type.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_19)		
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, slot, tsc, ta, TCV_tch_arfcn, C_normal_paging))		

Detailed Comments : 1. To assign TCH/F or TCH/H.

Test Step Dynamic Behaviour

Test Step Name : CCEstablishMT_SDCCH4(ta : TA; sub : B_2; cksn : B_3)
Group : Miscellaneous/
Objective : Establish a MT SDCCH/4 connection. This is used in CC testing
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCPage			
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		1.
4		L?DL_EstInPgRes	PagingRes(PagingRes_03 (cksn))		
5		ACTIVATE(OtherEvents)			Restore Normal default

Detailed Comments : 1. To assign a SDCCH/4.

Test Step Dynamic Behaviour

Test Step Name : CCEstablishMT_TCH(slot : SN; tsc : TSC; ta : TA)
Group : Miscellaneous/
Objective : Establish a MT TCH/F or TCH/H connection. This is used in CC testing
Default : OtherEvents
Comments : The calling tree shall prepare one variable for the step: TCV_ChRate for the type of the channel. TCV_chTch contains the identifier for the traffic channeland TCV_cht the channel type.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCPage			
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, slot, tsc, ta, TCV_tch_arfcn, C_normal_paging))		
4		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
5		ACTIVATE(OtherEvents)			Restore Normal default

Detailed Comments : 1. To assign TCH/F or TCH/H.

Test Step Dynamic Behaviour

Test Step Name : CC_Est_MT_Call

Group : Miscellaneous/

Objective : To perform the CC message exchange to establish a mobile station terminating call (late assignment).

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Setup_mt.sig := Signal_01)			
2		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
3		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		1)
4		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
5		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
6		(TCV_Null := OO_HookOff())			
7		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		

Detailed Comments : 1. If the MS supports the bearer capabilities, which are give in Setup message, it has to accept them. However, it may still send bearer capabilites in the Call Confirm message for either EFR or Half Rate

Test Step Dynamic Behaviour

Test Step Name : CC_EstMsTermCall(rate : IA5String; sub : B_1)

Group : Miscellaneous/

Objective : To perform the CC message exchange to establish a mobile station terminating call with non hopping channel (speech or data call). (Similar to EstMsTermFullRateCallNonFH but without initial RRmtcallprepare)

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CC_Est_MT_Call			
2		+ltree_Asgn			
3		+Adjust_gsmanddcs_powerlvl(9, 15)			
4		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
5		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
		ltree_Asgn			
6		[rate <> C_Half]			Full rate
7		(TCV_Tchtype := ’00001’B)			
8		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, TCV_asscmd_ts, TSPX_TscDef, 9, TCV_tch_arfcn, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			
9		[rate = C_Half]			Half rate
10		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(sub)), 5))			
11		(TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype, TCV_asscmd_ts, TSPX_TscDef, 9, TCV_tch_arfcn, CellChDes_Omit, TCV_ChMod, StartingTm_omit, CphMod_omit))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCModifyTCH(slot :SN; tsc : TSC)

Group : Miscellaneous/

Objective : Send channel mode modify command and wait for successful completion. This is used for CC testing.

Default : OtherEvents

Comments : The calling tree shall prepare two variables for the step: TCV_chtype for the type of the channel, TCV_ChMod with the channel mode IE for the channel.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))			
2		L!DL_DatRqChmmo	ChmmoReqSnd(TCV_chTch, ChmomoReq_07(TCV_chtype, TCV_ChMod.mode, slot, tsc, TCV_tch_arfcn))		
3		L?DL_DatInChmmoAck	ChmmoAckRcv(TCV_chTch, ChmomoAck_08(TCV_chtype, TCV_ChMod.mode, slot, tsc, TCV_tch_arfcn))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCPage

Group : Miscellaneous/

Objective : Send paging request and wait for channel request. This is usde in CC testing.

Default : OtherEvents

Comments : TCV_Rr contains the request reference and TCV_Fn contains the frame number of the channel request.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_01)		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCstatuschk_01(ch: LOGICCH; st : CCSTATE)

Group : Miscellaneous/

Objective : To check whether the MS under test is in the CC state ‘st‘ and cause = #30.

Default : OtherEventsFail

Comments : if the cause value is #30 and the CC state value is ‘st‘, the preliminary verdict is pass. This is used in the case of transcation initiated by test system, the DCCH is ‘ch‘.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqCcstEnq	CCStESnd(ch, CCStatusEq_01(TI_02))		
2		L?DL_DatInCcst	CCStRcv(ch, CCStatus_14(TI_01, st))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCstatuschk_02(ch: LOGICCH; st : CCSTATE; ti_orig, ti_dest: TI)

Group : Miscellaneous/

Objective : To check whether the MS under test is in the CC state ‘st‘ and cause = #30.

Default : OtherEvents

Comments : if the cause value is #30 and the CC state value is ‘st‘, the preliminary verdict is pass.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqCcstEnq	CCStESnd(ch, CCStatusEq_01(ti_orig))		
2		L?DL_DatInCcst (TCV_Cau := DL_DatInCcst.msg.cau, TCV_CCst := DL_DatInCcst.msg.cst)	CCStRcv(ch, CCStatus_01(ti_dest))		
3		[(TCV_Cau.cau_class = ’001’B) AND (TCV_Cau.cau_va = ’1110’B)]			
4		[TCV_CCst.csv = INT_TO_BIT(st, 6)]			1.
5	L_0852	[TCV_CCst.csv <> INT_TO_BIT(st, 6)]		(I)	2.
6		+PostLinkRelEnd(ch)			
7	L_0853	[(TCV_Cau.cau_class <> ’001’B) OR (TCV_Cau.cau_va<> ’1110’B)]		(I)	3.
8		+PostLinkRelEnd(ch)			

Detailed Comments : 1. Now in CC state ’st’ and cause = #30.
2. Not in CC state ’st’.
3. Cause is not #30.

Test Step Dynamic Behaviour

Test Step Name : CCstatuschk_03(st : CCSTATE ; Ti : TI)

Group : Miscellaneous/

Objective : To check whether the MS under test is in the CC state ‘st‘ and cause = #30.

Default : OtherEventsFail

Comments : if the cause value is #30 and the CC state value is ‘st‘, the preliminary verdict is pass. This is used in the case of DCCH = SDCCH4 and transcation initiated by the MS. The calling tree shall prepare the variable for the step: TCV_ch.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_TI1 := Ti, TCV_TI1.ti_f := ’0’B)			
2		L!DL_DatRqCcstEnq	CCStESnd(TCV_ch, CCStatusEq_01(Ti))		
3	L_0854	L?DL_DatInCcst	CCStRcv(TCV_ch, CCStatus_14(TCV_TI1, st))	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CCstatuschk_05(st : CCSTATE; ti : TI; ch: LOGICCH)

Group : Miscellaneous/

Objective : To check whether the MS under test is in the CC state ‘st‘ and cause = #30.

Default : OtherEventsFail

Comments : if the cause value is #30 and the CC state value is ‘st‘, the preliminary verdict is pass.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_TI1.ti_v := ti.ti_v)			
2		[ti.ti_f = ’0’B]			
3		(TCV_TI1.ti_f := ’1’B)			
4		+localtree			
5		[ti.ti_f = ’1’B]			
6		(TCV_TI1.ti_f := ’0’B)			
7		+localtree			
		localtree			
8		L!DL_DatRqCcstEnq	CCStESnd(ch, CCStatusEq_01(ti))		
9	L_0855	L?DL_DatInCcst	CCStRcv(ch, CCStatus_14(TCV_TI1, st))	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Check_Cells_Present (no_of_cells:B_3; sacch:LOGICCH)

Group : Miscellaneous/

Objective : To receive a specified number of measurement reports (TSPX_Msr_Cell_Present) describing a specified number of cells present.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_StartMsrReport(sacch))			
2		(TCV_Measure_Count :=0, TCV_CellPresent :=0)			
3		REPEAT get_measurements (no_of_cells, sacch) UNTIL [TCV_CellPresent = 1]			
		get_measurements (no_of_cells:B_3; sacch:LOGICCH)			
4		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr,TCV_No_of_cells:= DL_UdatInMsrRpt.msg.msrr.no_nc)	MsrRept(MsrReport_03e(MsrResult_03a))		
5		(TCV_CellPresent:=0)			
6		[TCV_No_of_cells = no_of_cells]			
7		(TCV_Measure_Count := TCV_Measure_Count + 1)			
8		[TCV_Measure_Count = TSPX_MsrCellPresent]			
9		(TCV_CellPresent :=1)			
10		(TCV_Measure_Count :=0)			
11		(TCV_Null := OM_StopMsrReport(sacch))			
12		[TCV_Measure_Count<> TSPX_MsrCellPresent]			
13		(TCV_CellPresent:=0)			
14		[TCV_No_of_cells <> no_of_cells]			
15		(TCV_CellPresent:=0)			

Detailed Comments :
1. Convert powers to integers (TCV_mindbm, TCV_maxdbm).
2. Check power is within tolerance.
3. Convert expected power to dBm (TCV_expdbm) and work out tolerance (TCV_n). This is different for DCS vs GSM (see GSM 05.05 section 4.1.1).

Test Step Dynamic Behaviour

Test Step Name : Check_hoaccPwr(Hoacc:HOACC_PARA; exp_pwr:BITSTRING)
Group : Miscellaneous/
Objective : To check that the received handover access bursts' power levels are as expected
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_mindbm := OC_OctToInt(Hoacc.min_mspwr), TCV_maxdbm := OC_OctToInt(Hoacc.max_mspwr))			1.
2		+localtree_PwrTol			
3		+localtree_check_neg			
4	L_1051	[(TCV_mindbm >= (TCV_expdbm−TCV_n)) AND (TCV_maxdbm <= (TCV_expdbm+TCV_n))]		(P)	2.
5	L_1052	[C_Yes]		(F)	
		localtree_PwrTol			
6		[TSPC_PGSM OR TSPC_EGSM]			3.
7		(TCV_expdbm := 43 −(BIT_TO_INT(exp_pwr) * 2))			
8		[TCV_expdbm <= 5]			
9		(TCV_expdbm := 5, TCV_n := 5)			
10		[(TCV_expdbm > 5) AND (TCV_expdbm <= 11)]			
11		(TCV_n := 5)			
12		[(TCV_expdbm > 11) AND (TCV_expdbm <= 37)]			
13		(TCV_n := 3)			
14		[TCV_expdbm > 37]			
15		(TCV_expdbm := 39, TCV_n := 2)			
16		[TSPC_DCS]			
17		+localtree_DCSPwr			
18		[TCV_expdbm <= 0]			
19		(TCV_expdbm := 0, TCV_n := 5)			
20		[(TCV_expdbm > 0) AND (TCV_expdbm <= 2)]			
21		(TCV_n := 5)			
22		[(TCV_expdbm > 2) AND (TCV_expdbm <= 12)]			
23		(TCV_n := 4)			
24		[(TCV_expdbm > 12) AND (TCV_expdbm <= 34)]			
25		(TCV_n := 3)			
26		[TCV_expdbm > 34]			
27		(TCV_n := 2)			
		localtree_DCSPwr			
28		[BIT_TO_INT(exp_pwr) <= 28]			
29		(TCV_expdbm := 30 − (BIT_TO_INT(exp_pwr) * 2))			
30		[BIT_TO_INT(exp_pwr) > 28]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		(TCV_expdbm := (BIT_TO_INT(exp_pwr) * 2) − 30)			
		localtree_check_neg			
32		[TCV_mindbm > 32768]			
33		(TCV_mindbm := TCV_mindbm − 65536)			
34		[TCV_maxdbm > 32768]			
35		(TCV_maxdbm := TCV_maxdbm − 65536)			
36		[C_Yes]			
37		[C_Yes]			
38		[TCV_maxdbm > 32768]			
39		(TCV_maxdbm := TCV_maxdbm − 65536)			
40		[C_Yes]			

Detailed Comments : 1. Convert powers to integers (TCV_mindbm, TCV_maxdbm).
2. Check power is within tolerance.
3. Convert expected power to dBm (TCV_expdbm) and work out tolerance (TCV_n). This is different for DCS vs GSM (see GSM 05.05 section 4.1.1).

Test Step Dynamic Behaviour

Test Step Name : Check_hoaccTiming (Hoacc:HOACC_PARA; exp_ta:BITSTRING)
Group : Miscellaneous/
Objective : To check that the received handover access bursts' timing advance is as expected
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_expta := BIT_TO_INT(exp_ta), TCV_temp1 := BIT_TO_INT(Hoacc.min_msta), TCV_temp2 := BIT_TO_INT(Hoacc.max_msta))			1.
2		+localtree_check_neg			
3	L_1050	[(TCV_temp1 >= (TCV_expta−2)) AND (TCV_temp2 <= (TCV_expta+2))]		(P)	2.
4	L_1053	[C_Yes]		(F)	
		localtree_check_neg			
5		[TCV_temp1 > 128]			
6		(TCV_temp1 := TCV_temp1 − 256)			
7		[TCV_temp2 > 128]			
8		(TCV_temp2 := TCV_temp2 − 256)			
9		[C_Yes]			
10		[C_Yes]			
11		[TCV_temp2 > 128]			
12		(TCV_temp2 := TCV_temp2 − 256)			
13		[C_Yes]			

Detailed Comments : 1. Convert timing to integer (TCV_expta).
2. Check burst timing is within 2 bits.

Test Step Dynamic Behaviour

Test Step Name : Check_Time (maxtime: INTEGER)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FnArith(TCV_Fn, TCV_Fn1)			
2	L_0856	[TCV_Time <= maxtime]		(P)	
3	L_0857	[TCV_Time > maxtime]		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Check_Result
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_0526	[NOT TCV_Res]		(F)	
2	L_0527	[TCV_Res]		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CheckFNTolerance(time_tolerance : INTEGER; calculated_frame_difference : INTEGER; chtype_targetch : CH_TDMA; fn : FN)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments : To check the ready to transmit tolerance as required by GSM 04.13, section 3.2 Definitions, Ready to transmit:"In this ETS the phrase "ready to transmit the message before time x" is defined to mean that the MS shall transmit part of that message no later than the first burst of the first TCH or control channel block that occurs after time x."

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FnCalc(fn)			Calculate frame number
2		(TCV_temp := OM_GetFNTolerance(chtype_targetch, time_tolerance, TCV_FrameNumber))			
3	L_0911	[calculated_frame_difference > TCV_temp]		(F)	The mobile station was not "Ready to Transmit " before time x as specified by GSM 04.13.
4	L_0912	[calculated_frame_difference <= TCV_temp]		(P)	The mobile station was "Ready to Transmit " before time x as specified by GSM 04.13.

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CheckMTDif(td:OCTETSTRING; y, k:INTEGER)
Group : Miscellaneous/
Objective : To check that the mobile time difference is within +/−2 half bits of the expected value
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_temp1 := OC_OctToInt(td)/8, TCV_temp2 := (k*2 + y) MOD 2097152)			
2	L_1063	[(TCV_temp1 >= TCV_temp2 − 2) AND (TCV_temp1 <= TCV_temp2 + 2)]		(P)	td must be within +/− 2 half bits
3	L_1049	[C_Yes]		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CheckTIsInStateU0(mo: BOOLEAN; ch: LOGICCH)
Group : Miscellaneous/
Objective : Check that all MO or MT CC entities in the MS are in state U0. This is used in CC testing.
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[mo]			
2		(TCV_TI1.ti_f := ’1’B, TCV_TI2.ti_f := ’0’B)			
3		+localtree1			
4		[NOT mo]			
5		(TCV_TI1.ti_f := ’0’B, TCV_TI2.ti_f := ’1’B)			
6		+localtree1			
		localtree1			
7		(TCV_Cnt := 0)			
8		REPEAT localtree2 UNTIL [TCV_Cnt = 7]			
		localtree2			
9		(TCV_TI1.ti_v := INT_TO_BIT(TCV_Cnt, 3), TCV_TI2.ti_v := INT_TO_BIT(TCV_Cnt, 3))			
10		L!DL_DatRqCcstEnq	CCStESnd(ch, CCStatusEq_01(TCV_TI1))		
11	L_0858	L?DL_DatInRelCmp	RelComRcv(ReleaseCmpRcv(TCV_TI2, Cause_07))	(P)	1.
12		(TCV_Cnt := TCV_Cnt + 1)			

Detailed Comments : 1. Cause #81 (invalid TI value)

Test Step Dynamic Behaviour

Test Step Name : ChkMsrmntRpt(index1, index2 : INTEGER)
Group : Miscellaneous/
Objective : Check whether the mesurment report is correct and assign the verdict accordingly.
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index1))			
3	L_0859	[NOT TCV_Res]		(F)	
4	L_0860	[TCV_Res]		(P)	
5		[TSPC_DCS]			
6		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index2))			
7	L_0861	[NOT TCV_Res]		(F)	
8	L_0862	[TCV_Res]		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Ciphering_off(ch: LOGICCH)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_CphMdChg(TCV_ch, CphMod_02, TCV_CphKey))			
2		L!DL_DatRqCphmCmd	CphCmd(ch, CphModeCmd_02)		
3	L_0863	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Ciphering_on(ch: LOGICCH)
Group : Miscellaneous/
Objective : Send cipher command and wait for successful completion
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_CphMdChg(ch, CphMod_01, TCV_CphKey))			
2		L!DL_DatRqCphmCmd	CphCmd(ch, CphModeCmd_01)		
3	L_0864	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CMsrvcRq
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_DatInCmsRq	CMSerDatReq(CMServiceReq_01)		1)
2		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
3	L_0865	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)	(P)	2)
4	L_0866	L?DL_DatInRegister	Register_03(RegisterPdu_01)	(P)	2)
5	L_0867	L?DL_DatInCpData	DatInCpData(TCV_ch, CpDataPdu_any)	(P)	2)

Detailed Comments : 1) MS shall send a CM Service Request.
2) Any initial CM message is to expect.
This test step is called in TC_26_7_4_3_4 & TC_26_7_5_8_2

Test Step Dynamic Behaviour

Test Step Name : DTMFSignalling(n: INTEGER; ti_ms: TI; ti_ss: TI; ch: LOGICCH)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Cnt:=0)			
2		REPEAT localtree UNTIL [TCV_Cnt=n]			
		localtree			
3		L?DL_DatInStartDtmf(TCV_Char := DL_DatInStartDtmf.msg.kpf.kpf_info)	StartDTMFRcv(StartDtmf_02(ti_ms))		
4		L!DL_DatRqStartDtmfAck	StartDTMFAckSnd(ch, StartDtmfAck_01(ti_ss, TCV_Char))		
5		L?DL_DatInStopDtmf	StopDTMFRcv(StopDtmf_01(ti_ms))		
6		L!DL_DatRqStopDtmfAck	StopDTMFAckSnd(ch, StopDtmfAck_01(ti_ss))		
7		(TCV_Cnt:=TCV_Cnt+1)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : EstablishFacMO(t : INTEGER; comp : Component_T; sdcch : B_2; slot : SN; tsc : TSC; tch : B_1)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
3		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sdcch, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))		
5		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
6		ACTIVATE(OtherEventsFail)			Restore Normal default
7		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
8		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
9		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
10		+AssCmdGen(TCV_cellid, TCV_ChRate, slot, tsc, tch)			
11		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
12		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
13		L!DL_DatRqConn START T_dly(t), START T_dly1(10000)	ConnSnd(TCV_chTch, Connect_05(TCV_TI, facilityIEtsndiei(comp)))		1.
14		+AOC_CHK_FAC(TCV_TI0)			

Detailed Comments : 1. To send Facility IE of ForwardChargeAdvice − comp.

Test Step Dynamic Behaviour

Test Step Name : FnArith(fn, fn1 : FN)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments : To calculate the difference of two frame numbers 'fn1' and 'fn'. The test step uses TCV_Cnt1, TCV_Cnt2, TCV_K and TCV_Time

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Cnt1 := (51 * ((BIT_TO_INT(fn.t3) − BIT_TO_INT(fn.t2) + 26) MOD 26)) + BIT_TO_INT(fn.t3) + (1326 * BIT_TO_INT(fn.t1_)), TCV_Cnt2 := (51 * ((BIT_TO_INT(fn1.t3) − BIT_TO_INT(fn1.t2) + 26) MOD 26)) + BIT_TO_INT(fn1.t3) + (1326 * BIT_TO_INT(fn1.t1_)))			GSM 04.08 section 10.5.2.30. TCV_K stores the frame number difference. TCV_Time stores the time difference in ms.
2		[TCV_Cnt2 > TCV_Cnt1]			1. fn1 > fn
3		(TCV_K := ((TCV_Cnt2−TCV_Cnt1) MOD 42432), TCV_Time := TCV_K * 120 / 26, TCV_Positive := C_Yes)			
4		[C_Yes]			fn1 <= fn
5		(TCV_K := (TCV_Cnt1−TCV_Cnt2) MOD 42432,TCV_Time := TCV_K * 120 / 26,TCV_Positive := C_No)			

Detailed Comments : 1. A positve value is always returned in TCV_K and TCV_Time. The TCV_Positive flag is set to TRUE if fn1 < fn.

Test Step Dynamic Behaviour

Test Step Name : FnCalc(fn : FN)

Group : Miscellaneous/

Objective : Convert t1, t2, t3 obtained from passed FN type into easier to manipulate INTEGER type.

Default : OtherEventsFail

Comments : To calculate the frame number from the t1_, t2 and t3 parameters derived from type FN.Result is stored in TCV_FrameNumber.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_FrameNumber := (51 * ((BIT_TO_INT(fn.t3) − BIT_TO_INT(fn.t2) + 26) MOD 26)) + BIT_TO_INT(fn.t3) + (1326 * BIT_TO_INT(fn.t1_)))			GSM 04.08 section 10.5.2.30

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : GetSubchannel(mainDCCH : LOGICCH)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments : To return the subchannel associated with 'mainDCCH'. Uses TCV_sacch_HO

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[mainDCCH = C_SDCCH4_A]			
2		(TCV_sacch_HO := C_SACCHC4_A)			
3		[mainDCCH = C_SDCCH8_A_1]			
4		(TCV_sacch_HO := C_SACCHC8_A_1)			
5		[mainDCCH = C_SDCCH4_B]			
6		(TCV_sacch_HO := C_SACCHC4_B)			
7		[mainDCCH = C_SDCCH8_B_1]			
8		(TCV_sacch_HO := C_SACCHC8_B_1)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : IdentityRequest(par_int:INTEGER; par_mi:MI)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ltree_idrequest			
2	L_0868	L?DL_DatInIdRes	IDRes(IDResponse_30(par_mi))	(P)	
		ltree_idrequest			
3		[par_int=C_IMSI]			
4		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		IMSI.
5		[par_int=C_TMSI]			
6		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0100'B))		TMSI.
7		[par_int=C_IMEI]			
8		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0010'B))		IMEI.
9		[par_int=C_IMEISV]			
10		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0011'B))		IMSESV.

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ImsiAttach (par_mi : MI; ta : TA; mcc, mnc : OCTETSTRING; sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM has been removed during the test.
2		(TCV_Null := OO_SIMIns())			
3		+ltree_imsiattach			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOn())			
6		+ltree_imsiattach			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerUp())			Restore power source
9		+ltree_imsiattach			
10		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv) OR (NOT TSPC_DetachOnSIMRmv)) AND (NOT TSPC_SwitchOnOff) AND (NOT TSPC_DetachOnPwrDn))]			
11		(TCV_Null := OO_PowerUp())			Restore power source
		ltree_imsiattach			
12		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
13		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
14		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
15	L_0869	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(par_mi, mcc, mnc, TCV_lac, C_imsi_attach, TCV_cksn))	(P)	
16		ACTIVATE(OtherEventsFail)			Restore Normal default
17		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(mcc, mnc, TCV_lac))		No MI
18		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ImsiAttachIni (par_mi : MI; ta : TA; mcc, mnc : OCTETSTRING; sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM has been removed during the test.
2		(TCV_Null := OO_SIMIns())			
3		+ltree_imsiattachIni			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOn())			
6		+ltree_imsiattachIni			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerUp())			Restore power source
9		+ltree_imsiattachIni			
10		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv) OR (NOT TSPC_DetachOnSIMRmv)) AND (NOT TSPC_SwitchOnOff) AND (NOT TSPC_DetachOnPwrDn))]			
11		(TCV_Null := OO_PowerUp())			Restore power source
		ltree_imsiattachIni			
12		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly(15000)	ChReq(ChRequest_09)		
13		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
14		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
15	L_0870	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(par_mi, mcc, mnc, TCV_lac, C_imsi_attach, TCV_cksn))	(P)	
16		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments : The test step is calld in TC_26_7_5_8_1, TC_26_7_5_8_2, TC_26_7_5_8_3.

Test Step Dynamic Behaviour

Test Step Name : ImsiAttachNoReaction (par_int: INTEGER; sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM has been removed during the test.
2		(TCV_Null := OO_SIMIns())			
3		+NoReaction(par_int)			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOn())			
6		+NoReaction(par_int)			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerUp())			Restore power source
9		+NoReaction(par_int)			
10		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv) OR ((TSPC_SIMRmv) AND (NOT TSPC_DetachOnSIMRmv))) AND (NOT TSPC_SwitchOnOff) AND (NOT TSPC_DetachOnPwrDn))]			
11		(TCV_Null := OO_PowerUp())			Restore power source

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ImsiDetach (par_mi:MI; ta : TA; sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM needs to be removed .
2		(TCV_Null :=OO_SIMRmv())			
3		+ltree_imsidetach			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOff())			
6		+ltree_imsidetach			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerDown())			Remove power source
9		+ltree_imsidetach			
10		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv) OR (NOT TSPC_DetachOnSIMRmv)) AND (NOT TSPC_SwitchOnOff) AND (NOT TSPC_DetachOnPwrDn))]			
11		(TCV_Null := OO_PowerDown())			Remove power source
		ltree_imsidetach			
12		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
13		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
14		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
15	L_0871	L?DL_EstInImsidIn	ImsiDet(ImsiDetach_30(par_mi))	(P)	
16		ACTIVATE(OtherEventsFail)			Restore normal default
17		+ChanRel(TCV_ch)			

Detailed Comments : If IMSI detach procedure has been executed, the channel will be relesed. If ATT=0 no detach has been executed, the channel is still connected.

Test Step Dynamic Behaviour

Test Step Name : ImsiDetachNoReaction (par_int: INTEGER; sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv) AND (TSPC_DetachOnSIMRmv)]			SIM needs to be removed .
2		(TCV_Null :=OO_SIMRmv())			
3		+NoReaction(par_int)			
4		[TSPC_SwitchOnOff]			
5		(TCV_Null := OO_SwitchOff())			
6		+NoReaction(par_int)			
7		[TSPC_DetachOnPwrDn]			
8		(TCV_Null := OO_PowerDown())			Remove power source
9		+NoReaction(par_int)			
10		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv) OR ((TSPC_SIMRmv) AND (NOT TSPC_DetachOnSIMRmv))) AND (NOT TSPC_SwitchOnOff) AND (NOT TSPC_DetachOnPwrDn))]			
11		(TCV_Null := OO_PowerDown())			Remove power source

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : InCallModi1(srv : SERVICES)

Group : Miscellaneous/

Objective : MMI action to initiate in−call modification to the basic service specified.

Default : OtherEvents

Comments : TCV_Setup_mo1 has been initialised by the calling tree.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_InCallModi(srv))			1.
2		(TCV_B := TCV_Setup_mo1.bcap1, TCV_Bcap1 := Bcap_SpeechNoIEI(TCV_B.iel,TCV_B.extb3,TCV_B.rchr,TCV_B.cs,TCV_B.tm,TCV_B.itc))			
3		(TCV_B := TCV_Setup_mo1.bcap2)			
4		[TCV_B.iel <> '08'O]			
5		(TCV_Bcap2 := Bcap_NoIEI(TCV_B.iel,TCV_B.extb3,TCV_B.rchr,TCV_B.cs,TCV_B.tm,TCV_B.itc,TCV_B.extb4,TCV_B.spb,TCV_B.strc,TCV_B.dplxm,TCV_B.config,TCV_B.nirr,TCV_B.est,TCV_B.extb5,TCV_B.accid,TCV_B.ra,TCV_B.sacp,TCV_B.extb6,TCV_B.l1id,TCV_B.uil1,TCV_B.sb,TCV_B.extb6a,TCV_B.nsb,TCV_B.nb,TCV_B.ndb,TCV_B.ur,TCV_B.extb6b,TCV_B.ir,TCV_B.nictx,TCV_B.nicrx,TCV_B.pi,TCV_B.extb6c,TCV_B.ce,TCV_B.modemt))			
6		[TCV_B.iel = '08'O]			
7		(TCV_Bcap2 := Bcap7_NoIEI(TCV_B.iel,TCV_B.extb3,TCV_B.rchr,TCV_B.cs,TCV_B.tm,TCV_B.itc,TCV_B.extb4,TCV_B.spb,TCV_B.strc,TCV_B.dplxm,TCV_B.config,TCV_B.nirr,TCV_B.est,TCV_B.extb5,TCV_B.accid,TCV_B.ra,TCV_B.sacp,TCV_B.extb6,TCV_B.l1id,TCV_B.uil1,TCV_B.sb,TCV_B.extb6a,TCV_B.nsb,TCV_B.nb,TCV_B.ndb,TCV_B.ur,TCV_B.extb6b,TCV_B.ir,TCV_B.nictx,TCV_B.nicrx,TCV_B.pi,TCV_B.extb6c,TCV_B.ce,TCV_B.modemt, TCV_B.extb7, TCV_B.l2id, TCV_B.uil2))			

Detailed Comments : 1. MMI action to initiate in−call modification.

Test Step Dynamic Behaviour

Test Step Name : MM_LUP(newmi : MI; mcc, newmnc, newlac : OCTETSTRING; locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit5(locup, ta)			
2		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, newmnc, newlac))		
3		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
4		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUP2(newmi:MI; lup_mi:MI; mcc, mnc, oldlac, newlac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(lup_mi, mcc, mnc, oldlac, locup, cksn, ta)			
2		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, mnc, newlac))		
3	L_0873	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	
4		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUP3(mcc, mnc, lac: OCTETSTRING; locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit2(locup, ta)			
2	L_0874	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(mcc, mnc, lac))	(P)	without MI
3		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupAndStop(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA; ch_sacch : LOGICCH; time : INTEGER)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)			
2		+Stopmaindcch(TCV_ch, ch_sacch)			
3		[time <> 0]			
4		+NoReaction(time)			
5		L!MDL_RelRq	MDLRelReq(TCV_ch)		
6		(TCV_Null := OM_Reactivate(TCV_ch, ch_sacch))			
7		[time = 0]			
8		L!MDL_RelRq	MDLRelReq(TCV_ch)		
9		(TCV_Null := OM_Reactivate(TCV_ch, ch_sacch))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupAuthRpt(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : B_3; rand : RAND; ta : TA)

Group : Miscellaneous/

Objective : To initialise Location Update and repeated Authentication procedures till T3210 times out.

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)			
2		START T_dly(C_T_T3210min)			
3		(TCV_Cntstart := FALSE)			
4		REPEAT ltree_auth UNTIL [TCV_Cntstart]			
		ltree_auth			
5		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDef, rand))		
6		?TIMEOUT T_dly			
7		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
8		+ltree_rcvRel			2.
9		+ltree_rcvRel			2.
10		L?DL_DatInAuthRes	AuthRes(AuthResponse)		
		ltree_rcvRel			
11		L?DL_RelIn	DLRelInd_01		2.
12		(TCV_Cntstart := TRUE)			Exit

Detailed Comments : 1. The test step is used in TC_26_7_4_3_2 and TC_26_7_4_3_3.
2. The T3210 has expired. The MS aborts the RR connection on the main signalling link.

Test Step Dynamic Behaviour

Test Step Name : MM_LUPauth1(newtmsi: MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn: B_3; rand : RAND; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit2(locup, ta)			
2		+Authentication(TCV_ch, cksn, rand)			
3		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newtmsi, mcc, mnc, lac))		
4	L_0877	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPauth2(newtmsi: MI; lup_mi:MI; mcc, mnc, old_lac, new_lac:OCTETSTRING; locup : B_2; old_cksn, new_cksn: B_3; rand : RAND; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit3(lup_mi, mcc, mnc, old_lac, locup, old_cksn, ta)			1.
2		+Authentication(TCV_ch, new_cksn, rand)			
3		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newtmsi, mcc, mnc, new_lac))		
4	L_0878	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	

Detailed Comments : 1. The test step MM_LupInit3 cancels the timer T_dly when receiving CHANNEL REQUEST from the MS for location updating. Caution for its use.

Test Step Dynamic Behaviour

Test Step Name : MM_LUP_imsi(duration: INTEGER; newmi, lup_mi:MI; mcc, mnc, lac, newlac:OCTETSTRING; locup : B_2; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Time := (duration + ((20 * duration) /100)))			
2		START T_dly(TCV_Time)			
3		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) READTIMER T_dly(TCV_Time), CANCEL T_dly	ChReq(ChRequest_09)		
4		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
5		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
6		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(lup_mi, mcc, mnc, lac, locup, TCV_cksn))		
7		ACTIVATE(OtherEventsFail)			Restore Normal default
8		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, mnc, newlac))		
9		+ChanRel(TCV_ch)			
10	L_0879	[TCV_Time <= duration]		(P)	
11	L_0880	[TCV_Time > duration]		(F)	
12	L_0881	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_0882	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(par_mi, mcc, mnc, lac, locup, cksn))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit2(locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_09)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))		
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit3(par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_09)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_0883	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_31(par_mi, mcc, mnc, lac, locup, cksn))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit4(locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_09)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))		
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit5(locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_02)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_0884	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupInit6(locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		
2		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
3		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_0885	L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(locup))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUP_tmsirealloc(newtmsi:MI; expectedlup_mi:MI; mcc, mnc, lup_lac, lac: OCTETSTRING; locup : B_2; lup_cksn: BITSTRING; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(expectedlup_mi, mcc, mnc, lup_lac, locup, lup_cksn, ta)			
2		+TmsiReallocation(newtmsi, mcc, mnc, lac)			
3		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, mcc, mnc, lac))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPper(mcc, mnc, lac: OCTETSTRING; locup : B_2; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(C_T_T3212min)			
2	L_0886	?TIMEOUT T_dly		(P)	
3		START T_dly(C_T_T3212dif*2)			
4		+MM_LupInit4(locup, ta)			
5	L_0887	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(mcc, mnc, lac))	(P)	no MI
6	L_0888	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPper2(par_timetol : INTEGER; locup : B_2; mcc, mnc, lac : OCTETSTRING; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_timetol)			
2		+MM_LupInit4(locup, ta)			
3	L_0889	L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp(mcc, mnc, lac))	(P)	no MI, fop;
4	L_0890	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPperauth(oldmi, newmi: MI; mcc, mnc, oldlac, newlac : OCTETSTRING; locup : B_2; cksn: B_3; rand : RAND; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(C_T_T3212min)			T3212 − 15 s
2	L_0891	?TIMEOUT T_dly		(P)	
3		START T_dly(C_T_T3212dif * 2)			2 * 15 s tolerance
4		+MM_LupInit3(oldmi, mcc, mnc, oldlac, locup, cksn, ta)			
5		+Authentication(TCV_ch, TCV_cksn, rand)			
6		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, mnc, newlac))		
7		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
8	L_0892	?TIMEOUT T_dly		(F)	T3212 + 15 s

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPperrej(par_rej:REJCAU; locup : B_2; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(C_T_T3212min)			
2	L_0893	?TIMEOUT T_dly		(P)	
3		START T_dly(C_T_T3212dif*2)			
4		+MM_LupInit4(locup, ta)			
5	L_0894	L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(par_rej))	(P)	
6		+ChanRel(TCV_ch)			
7	L_0895	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPperrej2(par_rej : REJCAU; par_mi : MI; par_toleranz: INTEGER; mcc, mnc, lac: OCTETSTRING; locup : B_2; cksn: BITSTRING; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_toleranz)			
2		+MM_LupInit3(par_mi, mcc, mnc, lac, locup, cksn, ta)			
3	L_0896	L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(par_rej))	(P)	
4		+ChanRel(TCV_ch)			
5	L_0897	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LUPperrej3(par_mi:MI;par_toleranz:INTEGER; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_toleranz)			
2		+MM_LupInit3(par_mi, mcc, mnc, lac, locup, cksn, ta)			
3		+ChanRel(TCV_ch)			
4	L_0898	?TIMEOUT T_dly		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupRej(par_rej: REJCAU; locup : B_2; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit2(locup, ta)			
2	L_0899	L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(par_rej))	(P)	
3		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_LupRej2(par_rej: REJCAU; par_mi:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)			
2	L_0900	L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(par_rej))	(P)	
3		+ChanRel(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_PwrOrSimOff (sim_rmvd : BOOLEAN)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv)]			SIM needs to be removed .
2		(TCV_Null :=OO_SIMRmv())			
3		[TSPC_SwitchOnOff]			
4		(TCV_Null := OO_SwitchOff())			
5		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv)) AND (NOT TSPC_SwitchOnOff))]			
6		(TCV_Null := OO_PowerDown())			Remove power source

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_PwrOrSimOn (sim_rmvd : BOOLEAN)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv)]			SIM has been removed
2		(TCV_Null := OO_SIMIns())			
3		[TSPC_SwitchOnOff]			
4		(TCV_Null := OO_SwitchOn())			
5		[(((NOT sim_rmvd) OR (NOT TSPC_SIMRmv)) AND (NOT TSPC_SwitchOnOff))]			
6		(TCV_Null := OO_PowerUp())			Restore power source

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_check_ecall1(ta : TA; mi : MI)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_Serv_TS11]			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+InitCall(TCV_Service)			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
7		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_05(mi))		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
10		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
11		+ltree_check_ti_flag			
12	L_0901	L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_04(TCV_TI))	(P)	
13		+ChanRel(TCV_ch)			
14		[NOT TSPC_Serv_TS11] ltree_check_ti_flag			
15	L_0902	[TCV_TI0.ti_f = ’1’B]		(F)	
16		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
17		L?DL_RelIn	DLRelInd_01		
18	L_0903	[TCV_TI0.ti_f = ’0’B]		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_check_ecall2(parexpected_mi: MI; parexpected_cksn: BITSTRING; ta : TA)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_Serv_TS11]			
2		+BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)			
3		+InitCall(TCV_Service)			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_16)		
5		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
6		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
7		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_31(parexpected_mi, parexpected_cksn))		
8		ACTIVATE(OtherEventsFail)			Restore Normal default
9		L!DL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMServiceAcp_01)		
10		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
11		+ltree_check_ti_flag			
12	L_0904	L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_04(TCV_TI))	(P)	
13		+ChanRel(TCV_ch)			
14	L_0905	[NOT TSPC_Serv_TS11]		(P)	
		ltree_check_ti_flag			
15	L_0906	[TCV_TI0.ti_f = '1'B]		(F)	
16		L!DL_DatRqChRel	ChRel(TCV_ch, ChRelease_01)		
17		L?DL_RelIn	DLRelInd_01		
18	L_0907	[TCV_TI0.ti_f = '0'B]		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_no_cmservices(par_int:INTEGER)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			
2		START T_dly(par_int)			
3	L_0908	?TIMEOUT T_dly		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : MM_no_paging(par_mi: MI; par_checktime:INTEGER; ccd: CCD; activ_cell : CellID)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCCH_group_Paging_group(ccd, TSPX_IMSI)			
2		+SelectPagingCh(activ_cell)			
3		L!DL_UdatRqPg1Rq START T_dly(par_checktime)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(par_mi))		
4	L_0909	?TIMEOUT T_dly		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : NoReaction(par_int:INTEGER)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_int)			
2	L_0910	?TIMEOUT T_dly		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : RR_hocompE(time_fn_fn1:INTEGER; oldch:LOGICCH; chtype : CH_TDMA)

Group : Miscellaneous/

Objective : To finish the HO−procedure. Timing advance = 20 bits period

Default : RcvHdOvAcc, OtherEvents

Comments : used var's: TCV_ch, TCV_Horf, TCV_Cntref

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInHoacc (TCV_FnBurst := DL_RacInHoacc.fn)	HndOvAccRcv(TCV_ch, HandOverAcc_02(TCV_Horf))		1.
2		L?DL_EstIn	DLEstInd(TCV_ch)		
3		(TCV_HoaccPara := OM_GetHoaccPara(TCV_ch))			
4	L_1043	[(OC_OctToInt(TCV_HoaccPara.num_bursts) >= TCV_Cntref) AND (OC_OctToInt(TCV_HoaccPara.num_bursts) <= (TCV_Cntref+20))]		(P)	2.
5		+localtree_continue			
6	L_1044	[C_Yes]		(F)	
7		+localtree_continue			
		localtree_continue			
8		(TCV_Fn1:= OM_ReturnFn(TCV_ch))			
9		L?DL_DatInHoCom(TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_ch, HandOverCmp_20)		
10		L!MDL_RelRq	MDLRelReq(oldch)		Release the original channel.
11		+CalcFirstFNofBlock(TCV_Fn, chtype)			3.
12		+FnArith(TCV_Fn1, TCV_Fn2)			4.
13		+CheckFNTolerance(time_fn_fn1, TCV_K, chtype, TCV_Fn1)			5.

Detailed Comments : 1. Match the 1st access burst. The access bursts except the 1st one are matched by the default test step RcvHdOvAcc.
2. Check the number of access bursts received with tolerance +20 (10 for FACCH interleave & 10 for MS processing).
3. Calculate first frame number of Handover Complete block.4. Calculate difference between last FN of Physical Information message and first FN of Handover Complete message.5. Check that the measured frame difference is within the ready to transmit tolerance as described by GSM 04.13, section 3.2 definitions.

Test Step Dynamic Behaviour

Test Step Name : RR_hocomp1(time_fn_fn1:INTEGER; oldch:LOGICCH)

Group : Miscellaneous/

Objective : To finish the HO−procedure. Timing advance = 20 bits period

Default : RcvHdOvAcc, OtherEvents

Comments : used var's: TCV_ch, TCV_Horf, TCV_Cntref

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInHoacc (TCV_FnBurst := DL_RacInHoacc.fn)	HndOvAccRcv(TCV_ch, HandOverAcc_02(TCV_Horf))		1.
2		L?DL_EstIn	DLEstInd(TCV_ch)		
3		(TCV_HoaccPara := OM_GetHoaccPara(TCV_ch))			
4	L_1043	[(OC_OctToInt(TCV_HoaccPara.num_bursts) >= TCV_Cntref) AND (OC_OctToInt(TCV_HoaccPara.num_bursts) <= (TCV_Cntref+20))]		(P)	2.
5		+localtree_continue			
6	L_1044	[C_Yes]		(F)	
7		+localtree_continue			
		localtree_continue			
8		(TCV_Fn1:= OM_ReturnFn(TCV_ch))			
9		L?DL_DatInHoCom(TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_ch, HandOverCmp_20)		
10		L!MDL_RelRq	MDLRelReq(oldch)		Release the original channel.
11		+FnArith(TCV_Fn1, TCV_Fn)			3.
12	L_0911	[TCV_Time > time_fn_fn1]		(F)	
13	L_0912	[TCV_Time <= time_fn_fn1]		(P)	

Detailed Comments : 1. Match the 1st access burst. The access bursts except the 1st one are matched by the default test step RcvHdOvAcc.
2. Check the number of access bursts received with tolerance +20 (10 for FACCH interleave & 10 for MS processing).
3. Check HO−time.

Test Step Dynamic Behaviour

Test Step Name : RR_hocomp3(time_fn1_fn:INTEGER;oldch:LOGICCH)
Group : Miscellaneous/
Objective : To finish the HO−procedure.
Default : OtherEvents
Comments : used var's:
TCV_ch, TCV_Horf, TCV_L1Head

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Cnt:=0, TCV_L1Head := OM_GetL1Hd(TCV_sacch))			1.
2		REPEAT localtree_hoacc UNTIL [TCV_Cnt = 4]			
3		L?DL_EstIn	DLEstInd(TCV_ch)		
4		L?DL_DatInHoCom(TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv(TCV_ch, HandOverCmp_20)		
5		L!MDL_RelRq	MDLRelReq(oldch)		Release the original channel
6		+localtree_hotime			2.
		localtree_hoacc			
7		L?DL_RacInHoacc	HndOvAccRcv(TCV_ch, HandOverAcc_02(TCV_Horf))		
8		(TCV_Cnt := TCV_Cnt + 1)			
		localtree_hotime			
9		+FnArith(TCV_Fn1, TCV_Fn)			
10	L_0913	[TCV_Time > time_fn1_fn]		(F)	
11	L_0914	[TCV_Time <= time_fn1_fn]		(P)	

Detailed Comments : 1) Store first SACCH L1 header from MS to check TA and Power
2) Check of HO−time

Test Step Dynamic Behaviour

Test Step Name : RRmtcallprepare(ta : TA; rand : RAND)
Group : Miscellaneous/
Objective : To prepare a mobile terminating call establishment.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEstRRConn(TCV_slot, TCV_tsc, ta)			
2		+Authentication(TCV_ch, TCV_cksn, rand)			
3		+Ciphering_on(TCV_ch)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : RcvSetupOrEsetup(Setup: SETUP_MO_PDU; Esetup : ESETUP_PDU; Ecall : BOOLEAN)
Group : Miscellaneous/
Objective : To manage Setup Mobile Originated.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[NOT Ecall]			
2		L?DL_DatInSetup (TCV_Setup_mo1 := DL_DatInSetup.msg, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv(Setup)		
3		+CallProcGen(TCV_Setup_mo1, TCV_Service)			
4		[Ecall]			
5		L?DL_DatInESetup (TCV_Esetup1 := DL_DatInESetup.msg, TCV_Setup_mo1.ti := TCV_Esetup1.ti, TCV_Setup_mo1.bcap1 := TCV_Esetup1.bcap, TCV_Setup_mo1.ccpd := TCV_Esetup1.ccpd, TCV_Setup_mo1.mt := TCV_Esetup1.mt, TCV_TI := TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	ESetupRcv(Esetup)		
6		+CallProcGen(TCV_Setup_mo1, TCV_Service)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SendSeqNo_chk
Group : Miscellaneous/
Objective : To check whether the sending sequence number is the same
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_0915	[TCV_Mt1 = TCV_Mt]		(P)	same N(SD)
2	L_0916	[TCV_Mt1 <> TCV_Mt]		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SelectPagingCh(cell : CellID)

Group : Miscellaneous/

Objective : To assign a paging channel and an access grant channel to the variable TCV_PgCh and TCV_agch respectively, depending on the parameter 'cell' (cell ID)

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[cell = C_CellA]			
2		[TCV_Ccchg=0]			
3		(TCV_PgCh := C_PCH_A_1, TCV_agch := C_AGCH_A_1, TCV_RaCh:= C_RACH_A_1)			
4		[TCV_Ccchg=1]			
5		(TCV_PgCh := C_PCH_A_2, TCV_agch := C_AGCH_A_2, TCV_RaCh := C_RACH_A_2)			
6		[TCV_Ccchg=2]			
7		(TCV_PgCh := C_PCH_A_3, TCV_agch := C_AGCH_A_3, TCV_RaCh := C_RACH_A_3)			
8		[TCV_Ccchg=3]			
9		(TCV_PgCh := C_PCH_A_4, TCV_agch := C_AGCH_A_4, TCV_RaCh := C_RACH_A_4)			
10		[cell = C_CellB]			
11		[TCV_Ccchg=0]			
12		(TCV_PgCh := C_PCH_B_1, TCV_agch := C_AGCH_B_1, TCV_RaCh := C_RACH_B_1)			
13		[TCV_Ccchg=1]			
14		(TCV_PgCh := C_PCH_B_2, TCV_agch := C_AGCH_B_2, TCV_RaCh := C_RACH_B_2)			
15		[TCV_Ccchg=2]			
16		(TCV_PgCh := C_PCH_B_3, TCV_agch := C_AGCH_B_3, TCV_RaCh := C_RACH_B_3)			
17		[TCV_Ccchg=3]			
18		(TCV_PgCh := C_PCH_B_4, TCV_agch := C_AGCH_B_4, TCV_RaCh := C_RACH_B_4)			
19		[cell = C_CellC]			
20		[TCV_Ccchg=0]			
21		(TCV_PgCh := C_PCH_C_1, TCV_agch := C_AGCH_C_1, TCV_RaCh := C_RACH_C_1)			
22		[TCV_Ccchg=1]			
23		(TCV_PgCh := C_PCH_C_2, TCV_agch := C_AGCH_C_2, TCV_RaCh := C_RACH_C_2)			
24		[TCV_Ccchg=2]			
25		(TCV_PgCh := C_PCH_C_3, TCV_agch := C_AGCH_C_3, TCV_RaCh := C_RACH_C_3)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		[TCV_Ccchg=3]			
27		(TCV_PgCh := C_PCH_C_4, TCV_agch := C_AGCH_C_4, TCV_RaCh := C_RACH_C_4)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name	**:**	Set_CellChDescr(cell : CellID)			
Group	**:**	Miscellaneous/			
Objective	**:**	To set the cell channel description			
Default	**:**				
Comments	**:**	used in TC_26_6_13			
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		[TSPC_PGSM OR TSPC_EGSM]			
2		[cell = C_CellA]			
3		(TCV_cchd1 := CellChDes_20_A)			
4		[cell = C_CellB]			
5		(TCV_cchd1 := CellChDes_20_B)			
6		[TSPC_DCS]			
7		[cell = C_CellA]			
8		(TCV_cchd1 := CellChDes_203_Adiei)			
9		[cell = C_CellB]			
10		(TCV_cchd1 := CellChDes_201_Bdiei)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name	**:**	SetupRcvMo2(pdu_setup: SETUP_MO_PDU)			
Group	**:**	Miscellaneous/			
Objective	**:**	To manage Setup Mobile Originated.			
Default	**:**	OtherEvents			
Comments	**:**				
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		L?DL_DatInSetup (TCV_Setup_mo := DL_DatInSetup.msg)	SetupRcv(pdu_setup)		
2		+CallProcGen(TCV_Setup_mo, TCV_Service)			
3		(TCV_TI1 := TCV_Setup_mo.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_CallProc.ti := TCV_TI2)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Switchcell(old_cell, activ_cell : CellID; lac : OCTETSTRING; subch, cksn, rand : BITSTRING; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)

Group : Miscellaneous/

Objective : To force the MS to reselect cell A

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, ccd, imsi)			
2		(TCV_Null := OM_ChangeRFOf2Cells(activ_cell, C_E_default, old_cell, C_E_notsuitable))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SvcSupportedChk(svc : IA5String)

Group : Miscellaneous/

Objective : To check wether the Basic Service svc is supported against PICS answers.

Default : OtherEvents

Comments : In PICS, if the svc is declared supported, the test case variable TCV_supported is set to TRUE, otherwisw FALSE.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_supported := C_No)			
2		[(svc = C_Telephony) AND TSPC_Serv_TS11]			TS11
3		(TCV_supported := C_Yes)			
4		[(svc = C_EmgCall) AND TSPC_Serv_TS12]			TS12
5		(TCV_supported := C_Yes)			
6		[(svc = C_AltSpchFax) AND TSPC_Serv_TS61]			TS61
7		(TCV_supported := C_Yes)			
8		[(svc = C_AutoFax) AND TSPC_Serv_TS62]			TS62
9		(TCV_supported := C_Yes)			
10		[(svc = C_Async300) AND TSPC_Serv_BS21]			BS21
11		(TCV_supported := C_Yes)			
12		[(svc = C_Async1200) AND TSPC_Serv_BS22]			BS22
13		(TCV_supported := C_Yes)			
14		[(svc = C_Async120075) AND TSPC_Serv_BS23]			BS23
15		(TCV_supported := C_Yes)			
16		[(svc = C_Async2400) AND TSPC_Serv_BS24]			BS24
17		(TCV_supported := C_Yes)			
18		[(svc = C_Async4800) AND TSPC_Serv_BS25]			BS25
19		(TCV_supported := C_Yes)			
20		[(svc = C_Async9600) AND TSPC_Serv_BS26]			BS26
21		(TCV_supported := C_Yes)			
22		[(svc = C_Sync1200) AND TSPC_Serv_BS31]			BS31
23		(TCV_supported := C_Yes)			
24		[(svc = C_Sync2400) AND TSPC_Serv_BS32]			BS32
25		(TCV_supported := C_Yes)			
26		[(svc = C_Sync4800) AND TSPC_Serv_BS33]			BS33
27		(TCV_supported := C_Yes)			
28		[(svc = C_Sync9600) AND TSPC_Serv_BS34]			BS34
29		(TCV_supported := C_Yes)			
30		[(svc = C_PAD300) AND TSPC_Serv_BS41]			BS41
31		(TCV_supported := C_Yes)			
32		[(svc = C_PAD1200) AND TSPC_Serv_BS42]			BS42
33		(TCV_supported := C_Yes)			
34		[(svc = C_PAD120075) AND TSPC_Serv_BS43]			BS43
35		(TCV_supported := C_Yes)			
36		[(svc = C_PAD2400) AND TSPC_Serv_BS44]			BS44
37		(TCV_supported := C_Yes)			
38		[(svc = C_PAD4800) AND TSPC_Serv_BS45]			BS45
39		(TCV_supported := C_Yes)			
40		[(svc = C_PAD9600) AND TSPC_Serv_BS46]			BS46
41		(TCV_supported := C_Yes)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
42		[(svc = C_Packet2400) AND TSPC_Serv_BS51]			BS51
43		(TCV_supported := C_Yes)			
44		[(svc = C_Packet4800) AND TSPC_Serv_BS52]			BS52
45		(TCV_supported := C_Yes)			
46		[(svc = C_Packet9600) AND TSPC_Serv_BS53]			BS53
47		(TCV_supported := C_Yes)			
48		[(svc = C_AltSpchData) AND TSPC_Serv_BS61]			BS61
49		(TCV_supported := C_Yes)			
50		[(svc = C_SpchData) AND TSPC_Serv_BS81]			BS81
51		(TCV_supported := C_Yes)			
52		[C_Yes]			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : Timadv_Pwrlvl_chk(k, y : INTEGER; pwrlvl : B_5)

Group : Miscellaneous/

Objective : To check whether the power level and the timing advance in L1 head is correct.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_temp1 := BIT_TO_INT(TCV_L1Head.ta), TCV_temp2 := (k*2 + y) MOD 256)			
2	L_1045	[(TCV_temp2 >= 60) OR (TCV_temp2 = 0) OR (TCV_temp1 > 63)]		(I)	
3	L_0917	[(TCV_temp2 >= TCV_temp1 − 2) AND (TCV_temp2 <= TCV_temp1 + 2) AND (TCV_L1Head.mspwrlvl = pwrlvl)]		(P)	TA must be within +/− 2 bits
4	L_0918	[C_Yes]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : TmsiReallocation(par_mi : MI; mcc, mnc, lac: OCTETSTRING)
Group : Miscellaneous/
Objective :
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqTmsireCmd	TmsiReallocSnd(par_mi, TCV_ch, mcc, mnc, lac)		
2	L_0919	L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)	(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Varinit_tch(arfcngsm, arfcndcs:INTEGER)
Group : Miscellaneous/
Objective : To assign an initial arfcn value to TCV_tch_arfcn
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_PGSM OR TSPC_EGSM]			
2		(TCV_tch_arfcn:= arfcngsm)			
3		[TSPC_DCS]			
4		(TCV_tch_arfcn:= arfcndcs)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Varinit_fix(activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cellid := activ_cell, TCV_ch := OC_SubchOfSdcch4(subch, activ_cell), TCV_sacch := OC_SubchOfSacch4(subch, activ_cell), TCV_ia_ts := ’000’B, TCV_lac := lac, TCV_cksn :=cksn, TCV_CphKey := OC_CphKeyGen(TSPX_Ki, rand))			
2		+CCCH_group_Paging_group(ccd, imsi)			
3		+SelectPagingCh(activ_cell)			
4		[TSPC_PGSM OR TSPC_EGSM]			
5		(TCV_chdescr_arfcn:= arfcngsm)			
6		[TSPC_DCS]			
7		(TCV_chdescr_arfcn:= arfcndcs)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Wait(par_int:INTEGER)

Group : Miscellaneous/

Objective :

Default : OtherEventsFail

Comments : To check whether MS doesn’t initiate any RR connections

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START T_dly(par_int)			
2		?TIMEOUT T_dly			

Detailed Comments : This test step can be used, e.g.for 1s. delay of a PAGING REQUEST message following immediately a CHANNEL RELEASE.

Test Step Dynamic Behaviour

Test Step Name : WaitForInService
Group : Miscellaneous/
Objective : To wait until the MS enters the Idle and updated state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Reorg))			
2		START T_dly(5000)			
3		?TIMEOUT T_dly			
4		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Norm))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChgLAC_A(t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; mcc, mnc, lac : OCTETSTRING)
Group : Miscellaneous/
Objective : To change the LAC of cell A and of System Information Messages according to used testcase.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC_1, C_NCCP_2)			
2		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
3		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChgLAC_B(t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; mcc, mnc, lac : OCTETSTRING)

Group : Miscellaneous/

Objective : To change the LAC of cell B and of System Information Messages according to used testcase.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC_1, C_NCCP_2)			
2		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
3		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChgLAI_C(att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, par_mnc, lac : OCTETSTRING)

Group : Miscellaneous/

Objective : To change the LAI of cell C to HPLMN.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := ’0010’B, TCV_Max := ’00’B, TCV_Neci := ’0’B, TCV_Ccd0C := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		L!DL_UdatRqSysinfo4	SysInfo4(C_BCCH_C_1, mcc, par_mnc, lac, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci , TCV_Max, TCV_Tx, C_noRestablishment)		
4		L!DL_UdatRqSysinfo6	SysInfo6(TCV_sacch_C, SysInf6(C_ci_cellC, mcc, par_mnc, lac, CellOpt_01, C_NCCP_2))		
5		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_C_1, C_ci_cellC, mcc, par_mnc, lac, TCV_Ccd0C, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		
6		[TSPC_DCS]			
7		L!DL_UdatRqSysinfo4	SysInfo4(C_BCCH_C_1, mcc, par_mnc, lac, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci , TCV_Max, TCV_Tx, C_noRestablishment)		
8		L!DL_UdatRqSysinfo6	SysInfo6(TCV_sacch_C, SysInf6(C_ci_cellC, mcc, par_mnc, lac, CellOpt_01, C_NCCP_2))		
9		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_C_1, C_ci_cellC, mcc, par_mnc, lac, TCV_Ccd0C, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_cbms(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP; Sub : B_2)

Group : Miscellaneous/

Objective : To send system information messages for the CBMS tests.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212), TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(Sub)), 5))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+ltree_sysinfo			
		ltree_sysinfo			
5		[TSPC_PGSM OR TSPC_EGSM]			
6		L!DL_UdatRqSysinfo4	SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfhiei(TCV_Tchtype, C_S0, C_BCC, C_arfcnA))		
7		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
8		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		(TCV_sysinf5 := SysInf5(bcchflgsm))			
11		[TSPC_DCS]			
12		L!DL_UdatRqSysinfo4	SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfhiei(TCV_Tchtype, C_S0, C_BCC, C_arfcnAd))		
13		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
14		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
16		(TCV_sysinf5 := SysInf5(bcchfldcs))			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_fh(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgsm, cchddcs : CCHD; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/

Objective : To send system information messages for the L3 tests. The following parameters specified by input parameters:
- bcch: BCCH
- sch: SCH
- bcchfl: BCCH frequency list
- ci: Cell identity
- lai: Location area identification
- ccd: Control channel description
- csp: Cell selection parameters
- cchd: Cell channel description
- rachcpar: RACH controll paramenters
- nccp: NCC permitted.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+ltree_sysinfo			
		ltree_sysinfo			
5		[TSPC_PGSM OR TSPC_EGSM]			
6		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchdgsm, TCV_Max, TCV_Tx, Re)		
7		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
8		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		(TCV_sysinf5 := SysInf5(bcchflgsm))			
11		[TSPC_DCS]			
12		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchddcs, TCV_Max, TCV_Tx, Re)		
13		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
14		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
16		(TCV_sysinf5 := SysInf5(bcchfldcs), TCV_sysinf6.co.pwrc := '1'B)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_nfh(sch, bcch : LOGICCH; t, retr, neci , att: INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/

Objective : To send system information messages with default parameters defined for the L3 tests for which no special parameters indicated.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+gsmOrDcs			
		gsmOrDcs			
5		[TSPC_PGSM OR TSPC_EGSM]			1.
6		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci , TCV_Max, TCV_Tx, Re)		
7		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
8		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		[NOT TSPX_AltNb]			3.
10		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
11		(TCV_sysinf5 := SysInf5(bcchflgsm))			
12		[TSPX_AltNb]			4.
13		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcflaltgsm, TCV_Max, TCV_Tx, Re, nccp)		
14		(TCV_sysinf5 := SysInf5(bcflaltgsm))			
15		[TSPC_DCS]			2.
16		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci , TCV_Max, TCV_Tx, Re)		
17		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
18		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
19		[NOT TSPX_AltNb]			3.

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
21		(TCV_sysinf5 := SysInf5(bcchfldcs))			
22		[TSPX_AltNb]			4.
23		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcflaltdcs, TCV_Max, TCV_Tx, Re, nccp)		
24		(TCV_sysinf5 := SysInf5(bcflaltdcs))			

Detailed Comments : 1. For GSM900 mobile station testing.
2. For DCS1800 mobile station testing.
3. To use alternative neighbour cells description.
4. To use default neighbour cells description.

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_nfhCb(sch, bcch : LOGICCH; t, retr, neci , att: INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/

Objective : To send system information messages with default parameters defined for the L3 tests for which no special parameters indicated.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
3		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		
4		+gsmOrDcs			
		gsmOrDcs			
5		[TSPC_PGSM OR TSPC_EGSM]			1.
6		L!DL_UdatRqSysinfo4 (DL_UdatRqSysinfo4.msg.rachcp.cba := ’1’B)	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci , TCV_Max, TCV_Tx, Re)		
7		L!DL_UdatRqSysinfo1_nh (DL_UdatRqSysinfo1_nh.msg.rachcp.cba := ’1’B)	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
8		L!DL_UdatRqSysinfo3 (DL_UdatRqSysinfo3.msg.rachcp.cba := ’1’B)	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
9		[NOT TSPX_AltNb]			3.
10		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.rachcp.cba := ’1’B)	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
11		(TCV_sysinf5 := SysInf5(bcchflgsm))			
12		[TSPX_AltNb]			4.
13		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.rachcp.cba := ’1’B)	SysInfo2(bcch, bcflaltgsm, TCV_Max, TCV_Tx, Re, nccp)		
14		(TCV_sysinf5 := SysInf5(bcflaltgsm))			
15		[TSPC_DCS]			2.
16		L!DL_UdatRqSysinfo4 (DL_UdatRqSysinfo4.msg.rachcp.cba := ’1’B)	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci , TCV_Max, TCV_Tx, Re)		
17		L!DL_UdatRqSysinfo1_nh (DL_UdatRqSysinfo1_nh.msg.rachcp.cba := ’1’B)	SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
18		L!DL_UdatRqSysinfo3 (DL_UdatRqSysinfo3.msg.rachcp.cba := ’1’B)	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
19		[NOT TSPX_AltNb]			3.

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.rachcp.cba := ’1’B)	SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
21		(TCV_sysinf5 := SysInf5(bcchfldcs))			
22		[TSPX_AltNb]			4.
23		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.rachcp.cba := ’1’B)	SysInfo2(bcch, bcflaltdcs, TCV_Max, TCV_Tx, Re, nccp)		
24		(TCV_sysinf5 := SysInf5(bcflaltdcs))			

Detailed Comments : 1. For GSM900 mobile station testing.
2. For DCS1800 mobile station testing.
3. To use alternative neighbour cells description.
4. To use default neighbour cells description.

Test Step Dynamic Behaviour

Test Step Name : SysInfoSending_e(sch, bcch : LOGICCH; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgsm : CCHD; crh, mtmcgsm : INTEGER; bcchflgsm, bcchflegsm : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)

Group : Miscellaneous/

Objective : To send SYNCHRONIZATION CHANNEL INFORMATION and SYSTEM INFORMATION messages with default parameters except CCCH_CONF, Tx−integer, Max−Retrans and ATT which are specified by input parameters.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		L!DL_UdatRqSchinfo	SyncInfo(sch, bcc, ncc)		1.
3		(TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co, nccp))			
4		L!DL_UdatRqSysinfo1	SysInfo1(bcch, cchdgsm, TCV_Max, TCV_Tx, Re)		2.
5		L!DL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.bcchfl.extind := '1'B)	SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
6		L!DL_UdatRqSysinfo2bis	SysInfo2bis(bcch, bcchflegsm)		
7		L!DL_UdatRqSysinfo4	SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci , TCV_Max, TCV_Tx, Re)		
8		(TCV_sysinf5 := SysInf5(bcchflgsm), TCV_sysinfo5.bcchfl.extind := '1'B)			
9		(TCV_sysinfo5bis := SysInf5bis(bcchflegsm))			
10		L!DL_UdatRqSysinfo3	SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		

Detailed Comments : 1. To send SYNCHRONIZATION INFORMATION message with default parameter for cell A.
2. System Information Type 1 with Cell Channel Description for HO−testin in cell A (GSM900).

Test Step Dynamic Behaviour

Test Step Name : SysInfo_SacchSending(ch : LOGICCH; sysinfo5_pdu : SYSINFO5_PDU; sysinfo6_pdu : SYSINFO6_PDU)

Group : Miscellaneous/

Objective : To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrised 'ch' channel.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ch <> "dummy"]			
2		L!DL_UdatRqSysinfo6	SysInfo6(ch , sysinfo6_pdu)		
3		L!DL_UdatRqSysinfo5	SysInfo5(ch , sysinfo5_pdu)		
4	L_0920	[ch = "dummy"]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SysInfo_5bisSending(ch : LOGICCH; sysinfo5bis_pdu : SYSINFO5bis_PDU)

Group : Miscellaneous/

Objective : To send SYSTEM INFORMATION 5bis message defined by parameters 'sysinfo5bis_pdu' in the parametrised 'ch' channel.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[ch <> "dummy"]			
2		L!DL_UdatRqSysinfo5bis	SysInfo5bis(ch , sysinfo5bis_pdu)		
3	L_0921	[ch = "dummy"]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SetNECI(att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING)

Group : Miscellaneous/

Objective : To set the NECI =1.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := ’0010’B, TCV_Max := ’11’B, TCV_Neci := ’1’B, TCV_Ccd0A := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		[TSPC_PGSM OR TSPC_EGSM]			
3		L!DL_UdatRqSysinfo4	SysInfo4(C_BCCH_A_1, mcc, mnc, lac, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
4		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
5		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_Restablishment)		
6		[TSPC_DCS]			
7		L!DL_UdatRqSysinfo4	SysInfo4(C_BCCH_A_1, mcc, mnc, lac, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
8		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
9		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_Restablishment)		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : SetATT(t, retr, att, neci : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING)

Group : Miscellaneous/

Objective : To set the ATT flag to "MS's in the cell should apply IMSI attach and detach procedure"

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0A := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
2		[TSPC_PGSM OR TSPC_EGSM]			1.
3		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
4		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
5		START T_dly(35000)			
6		?TIMEOUT T_dly			3.
7		[TSPC_DCS]			2.
8		L!DL_UdatRqSysinfo1_nh	SysInfo1_nh(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
9		L!DL_UdatRqSysinfo3	SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci , TCV_Max, TCV_Tx, C_Restablishment)		
10		START T_dly(35000)			3.
11		?TIMEOUT T_dly			

Detailed Comments : 1. For P−GSM900.
2. For DCS1800.
3. Wait for 5 seconds to allow the MS read BCCH information.

Test Step Dynamic Behaviour

Test Step Name : InitCall(srv: SERVICES)
Group : OperatorOP/
Objective : To initiate a call of the basic service ‘srv‘.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitCall(srv))			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : InitCM(srv: SERVICES)
Group : OperatorOP/
Objective : To initiate a CM service request.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_MOsvc]			
2		(TCV_Null := OO_InitCall(srv))			
3		[TSPC_NonCallSS]			
4		(TCV_Null := OO_InitNonCallSS())			
5		[TSPC_Serv_TS22]			
6		(TCV_Null := OO_SendMOShortMessage())			
7	L_1048	[NOT TSPC_MOsvc AND NOT TSPC_Serv_TS22 AND NOT TSPC_NonCallSS]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : InitNonCallSupp
Group : OperatorOP/
Objective : To attempt a non call related supplementary service at the MS under test.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitNonCallSS())			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : AtmpShortMsg
Group : OperatorOP/
Objective : To attempt a short message service transaction at the MS under test.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_SendMOShortMessage())			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : CheckUssdStringDisplayed(strg: IA5String)
Group : OperatorOP/
Objective : To check whether the correct USSD String 'strg' is displayed on the MS
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_CheckUssdStringDisplayed(strg))			
2	L_0922	[TCV_Res]		(P)	
3	L_0923	[NOT TCV_Res]		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PLMNsCHK
Group : OperatorOP/
Objective : To check whether the MS presents a list of available PLMNs.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_PLMNsCHK())			
2	L_0924	[TCV_Res]		P	
3	L_0925	[NOT TCV_Res]		F	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : RFtransCHK
Group : OperatorOP/
Objective : To check whether the MS transmits any radio signal.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_RFoutputCHK())			
2	L_0926	[TCV_Res]		F	
3	L_0927	[NOT TCV_Res]		(P)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PostLinkRelEnd(ch: LOGICCH)
Group : Postambles/
Objective : To release the RR connection and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2		L?DL_RelIn	DLRelInd_01		
3	L_0928	CANCEL		R	1.
4		?TIMEOUT T_release			
5	L_0929	CANCEL		R	1.

Detailed Comments : 1. Cancel of all running timers and final verdict.

Test Step Dynamic Behaviour

Test Step Name : PostMainLinkRel(chnl : LOGICCH)
Group : Postambles/
Objective : To release the main signalling link ‘ch‘, and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(chnl, ChRelease_01)		
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		?TIMEOUT T_release			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChanRel(ch: LOGICCH)
Group : Postambles/
Objective : To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3	L_0930	?TIMEOUT T_release		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChanRel_02(ch: LOGICCH)
Group : Postambles/
Objective : To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2		L?DL_RelIn	DLRelInd_02		local end release
3		L?DL_RelIn CANCEL T_release	DLRelInd_01		
4		L?DL_RelIn CANCEL T_release	DLRelInd_01		
5	L_1073	?TIMEOUT T_release		(F)	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChanRel_P(ch: LOGICCH)
Group : Postambles/
Objective : To release the RR connection on the channel TCV_chmaindcch and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2	L_0931	L?DL_RelIn	DLRelInd_01	(P)	
3		?TIMEOUT T_release			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : ChanRel_end(ch: LOGICCH)
Group : Postambles/
Objective : To release the RR connection and bring the MS back to Idle state.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)		
2		L?DL_RelIn	DLRelInd_01		
3	L_0932	CANCEL		(P)	1.
4		?TIMEOUT T_release			
5	L_0933	CANCEL		(F)	1.

Detailed Comments : 1. Cancel of all running timers.

Test Step Dynamic Behaviour

Test Step Name : RmvForbiddenPlmn(activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)
Group : Postambles/
Objective : To remove a forbidden PLMN in the list on SIM.
Default : OtherEventsFail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+StartCellB(C_E_default, arfcngsm, arfcndcs, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, lac, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
2		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, ccd, imsi)			
3		(TCV_Null := OM_StopCell(C_CellA))			
4		(TCV_Null := OO_PLMNselModeMan())			
5		(TCV_Null := OO_SelPLMN(C_PLMN_2))			
6		+MM_LUP3(C_MCC_1, C_PLMN_2, lac, C_norm_period_attach, TimingAdv(30))			
7		(TCV_Null := OO_PLMNselModeAuto())			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : RmvForbiddenPlmn1(activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)

Group : Postambles/

Objective : To remove a forbidden PLMN in the list on SIM.

Default : OtherEventsFail

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+StartCellB(C_E_default, arfcngsm, arfcndcs, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, lac, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
2		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, ccd, imsi)			
3		(TCV_Null := OO_PLMNselModeMan())			
4		(TCV_Null := OO_SelPLMN(C_PLMN_2))			
5		+MM_LUP3(C_MCC_1, C_PLMN_2, lac, C_norm_period_attach, TimingAdv(30))			
6		(TCV_Null := OO_PLMNselModeAuto())			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMO(svc : SERVICES; rate : RATE)

Group : Preambles/

Objective : To generate a Bcap, an MO SETUP message and an appropriate channel mode based on the service and rate, as well as on several IXIT parameters, itc, ce, ur, synchronous bit for an MO call.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_init			Default values
2		[TCV_Service = C_EmgCall]			
3		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
4		(TCV_ChMod.mode := C_ChMod_r, TCV_Esetup := Setup_04(Bcap_Speech_MO(TCV_Rchr)), TCV_Ecall := C_Yes)			Emergency Call − Non EFR Mobile
5		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
6		(TCV_ChMod.mode := C_ChMod_r, TCV_Esetup := Setup_04(Bcap_Speech_Efr_MO(TCV_Rchr)), TCV_Ecall := C_Yes)			Emergency Call − EFR Mobile
7		[TCV_Service = C_Telephony]			
8		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
9		(TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mo := Setup_02(Bcap_Speech_MO(TCV_Rchr)))			Speech − Non EFR Mobile
10		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
11		(TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mo := Setup_02(Bcap_Speech_Efr_MO(TCV_Rchr)))			Speech − EFR Mobile
12		[TCV_Service = C_AltSpchFax]			
13		[rate = C_Full]			
14		+TS61MO(C_AltSpchFax)			Speech/fax
15	L_0934	[rate <> C_Full]		I	IXIT error
16		[TCV_Service = C_AutoFax]			
17		[rate = C_Full]			
18		+TS62MO(C_AutoFax)			Auto fax
19	L_0935	[rate <> C_Full]		I	IXIT error
20		[TCV_Service = C_Async300]			
21		+BS2xMO(C_Async300, TSPX_BS_21_sacp, TSPX_BS_21_T_NT, TSPX_BS_21_itc1, C_300bs, TCV_MODEM.v_abt1, TSPX_BS_21_ce)			BS21
22		[TCV_Service = C_Async1200]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		+BS2xMO(C_Async1200, TSPX_BS_22_sacp, TSPX_BS_22_T_NT, TSPX_BS_22_itc1, C_1200bs, TCV_MODEM.v_abt1, TSPX_BS_22_ce)			BS22
24		[TCV_Service = C_Async120075]			
25		+BS2xMO(C_Async120075, TSPX_BS_23_sacp, TSPX_BS_23_T_NT, TSPX_BS_23_itc, C_120075bs, TCV_MODEM.v_abt1, TSPX_BS_23_ce)			BS23
26		[TCV_Service = C_Async2400]			
27		+BS2xMO(C_Async2400, TSPX_BS_24_sacp, TSPX_BS_24_T_NT, TSPX_BS_24_itc1, C_2400bs, TCV_MODEM.v_abt1, TSPX_BS_24_ce)			BS24
28		[TCV_Service = C_Async4800]			
29		+BS2xMO(C_Async4800, TSPX_BS_25_sacp, TSPX_BS_25_T_NT, TSPX_BS_25_itc1, C_4800bs, TCV_MODEM.v_abt1, TSPX_BS_25_ce)			BS25
30		[TCV_Service = C_Async9600]			
31		+BS2xMO(C_Async9600, TSPX_BS_26_sacp, TSPX_BS_26_T_NT, TSPX_BS_26_itc1, C_9600bs, TCV_MODEM.v_abt1, TSPX_BS_26_ce)			BS26
32		[TCV_Service = C_Sync1200]			
33		+BS3xMO(C_Sync1200, FALSE, TSPX_BS_31_itc1, TSPX_BS_31_sacp1, C_1200bs, C_transparent, TCV_MODEM.v_abt1)			BS31
34		[TCV_Service = C_Sync2400]			
35		+BS3xMO(C_Sync2400, TSPX_BS_32_X32_T_NT, TSPX_BS_32_itc1, TSPX_BS_32_sacp1, C_2400bs, TSPX_BS_32_X32_ce, TCV_MODEM.v_abt1)			BS32
36		[TCV_Service = C_Sync4800]			
37		+BS3xMO(C_Sync4800, TSPX_BS_33_X32_T_NT, TSPX_BS_33_itc1, TSPX_BS_33_sacp1, C_4800bs, TSPX_BS_33_X32_ce, TCV_MODEM.v_abt1)			BS33
38		[TCV_Service = C_Sync9600]			
39		+BS3xMO(C_Sync9600, TSPX_BS_34_X32_T_NT, TSPX_BS_34_itc1, TSPX_BS_34_sacp1, C_9600bs, TSPX_BS_34_X32_ce, TCV_MODEM.v_abt1)			BS34
40		[TCV_Service = C_PAD300]			
41		+BS4xMO(C_PAD300, C_300bs, TSPX_BS_41_ce, TSPX_BS_41_T_NT)			BS41
42		[TCV_Service = C_PAD1200]			
43		+BS4xMO(C_PAD1200, C_1200bs, TSPX_BS_42_ce, TSPX_BS_42_T_NT)			BS42
44		[TCV_Service = C_PAD120075]			
45		+BS4xMO(C_PAD120075, C_120075bs, TSPX_BS_43_ce, TSPX_BS_43_T_NT)			BS43
46		[TCV_Service = C_PAD2400]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
47		+BS4xMO(C_PAD2400, C_2400bs, TSPX_BS_44_ce, TSPX_BS_44_T_NT)			BS44
48		[TCV_Service = C_PAD4800]			
49		+BS4xMO(C_PAD4800, C_4800bs, TSPX_BS_45_ce, TSPX_BS_45_T_NT)			BS45
50		[TCV_Service = C_PAD9600]			
51		+BS4xMO(C_PAD9600, C_9600bs, TSPX_BS_46_ce, TSPX_BS_46_T_NT)			BS46
52		[TCV_Service = C_Packet2400]			
53		+BS5xMO(C_Packet2400, C_2400bs)			BS51
54		[TCV_Service = C_Packet4800]			
55		+BS5xMO(C_Packet4800, C_4800bs)			BS52
56		[TCV_Service = C_Packet9600]			
57		+BS5xMO(C_Packet9600, C_9600bs)			BS53
58		[TCV_Service = C_AltSpchData]			
59		+BS61or81MO(C_AltSpchData, TSPX_BS_61_A, TSPX_BS_61_A_ur1_T_NT, TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur1_ce, TSPX_BS_61_S, TSPX_BS_61_S_ur1, C_RI_alternate)			BS61
60		[TCV_Service = C_SpchData]			
61		+BS61or81MO(C_SpchData, TSPX_BS_81_A, TSPX_BS_81_A_ur1_T_NT, TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur1_ce, TSPX_BS_81_S, TSPX_BS_81_S_ur1, C_RI_follow)			BS81
62	L_0936	[C_Yes]		I	IXIT error
		local_init			
63		(TCV_Service := svc, TCV_Rchr := C_Rchr_Full, TCV_Ecall := C_No, TCV_ChRate :=rate, TCV_ChMod.iei := ’01100011’B, TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.iei := ’01100011’B, TCV_ChModb.mode := C_ChMod_12k,TCV_bcapListIndicator := C_modemt_ce)			
64		+LocalGenerateModemType			
65		[TSPC_DualRate AND ((TSPC_HalfRateData AND (TCV_Service<>C_EmgCall) AND (TCV_Service<>C_Telephony)) OR (TSPC_HalfRateSpeech AND (TCV_Service=C_EmgCall) OR (TCV_Service=C_Telephony)))]			
66		(TCV_Rchr := C_Rchr_DualForDualH)			
67		[C_Yes]			
		LocalGenerateModemType			
68		[TCV_Service = C_Async300]			BS21
69		[TSPX_BS_21_ce = C_transparent]			
70		(TCV_MODEM.v_abt1 := C_modemt_V21)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
71		[(TSPX_BS_21_ce = C_notransparent) OR (TSPX_BS_21_ce = C_BothT) OR (TSPX_BS_21_ce = C_BothNT)]			
72		(TCV_MODEM := V21OrAbt1)			
73		[TCV_Service = C_Async1200]			BS22
74		[TSPX_BS_22_ce = C_transparent]			
75		(TCV_MODEM.v_abt1 := C_modemt_V22)			
76		[(TSPX_BS_22_ce = C_notransparent) OR (TSPX_BS_22_ce = C_BothT) OR (TSPX_BS_22_ce = C_BothNT)]			
77		(TCV_MODEM := V22OrAbt1)			
78		[TCV_Service = C_Async120075]			BS23
79		[TSPX_BS_23_ce = C_transparent]			
80		(TCV_MODEM.v_abt1 := C_modemt_V23)			
81		[(TSPX_BS_23_ce = C_notransparent) OR (TSPX_BS_23_ce = C_BothT) OR (TSPX_BS_23_ce = C_BothNT)]			
82		(TCV_MODEM := V23OrAbt1)			
83		[TCV_Service = C_Async2400]			BS24
84		[TSPX_BS_24_ce = C_transparent]			
85		(TCV_MODEM := V22bisOrV26ter)			
86		[(TSPX_BS_24_ce = C_notransparent) OR (TSPX_BS_24_ce = C_BothT) OR (TSPX_BS_24_ce = C_BothNT)]			
87		(TCV_MODEM := V22bisOrV26terOrAbt1)			
88		[TCV_Service = C_Async4800]			BS25
89		[TSPX_BS_25_ce = C_transparent]			
90		(TCV_MODEM.v_abt1 := C_modemt_V32)			
91		[(TSPX_BS_25_ce = C_notransparent) OR (TSPX_BS_25_ce = C_BothT) OR (TSPX_BS_25_ce = C_BothNT)]			
92		(TCV_MODEM := V32OrAbt1)			
93		[TCV_Service = C_Async9600]			BS26
94		[TSPX_BS_26_ce = C_transparent]			
95		(TCV_MODEM.v_abt1 := C_modemt_V32)			
96		[(TSPX_BS_26_ce = C_notransparent) OR (TSPX_BS_26_ce = C_BothT) OR (TSPX_BS_26_ce = C_BothNT)]			
97		(TCV_MODEM := V32OrAbt1)			
98		[TCV_Service = C_Sync1200]			BS31
99		(TCV_MODEM.v_abt1 := C_modemt_V22)			
100		[TCV_Service = C_Sync2400]			BS32
101		(TCV_MODEM := V22bisOrV26ter)			
102		[TCV_Service = C_Sync4800]			BS33
103		(TCV_MODEM.v_abt1 := C_modemt_V32)			
104		[TCV_Service = C_Sync9600]			BS34
105		(TCV_MODEM.v_abt1 := C_modemt_V32)			
106		[C_Yes]			No modem type

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Test Step Dynamic Behaviour	
Detailed Comments :	This test step is called in the preamble of test cases where an MO call is established in the test body.

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMOorTelephony(svc : SERVICES; rate : RATE)

Group : Preambles/

Objective : To get a MO SETUP message with right BC IE.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_Serv_TS11]			
2		+BasicServiceMO(C_Telephony,TSPX_Telephony_Rate)			
3		[NOT TSPC_Serv_TS11]			
4		+BasicServiceMO(svc,rate)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : BasicServiceMT(svc : SERVICES; rate : RATE)

Group : Preambles/

Objective : To generate a Bcap, an MT SETUP message and an appropriate channel mode based on the service and rate, as well as on several IXIT parameters, itc, ce, ur, synchronous bit for an MT call.
To generate a second SETUP message for TC_11_1_1.

Default : OtherEvents

Comments : Used for CC tests

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Service := svc, TCV_ChRate :=rate, TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.iei := '01100011'B, TCV_ChModb.mode := C_ChMod_12k, TCV_2ndtest := C_No)			Default values
2		+SvcSupportedChk(svc)			
3		+local_main			
		local_main			
4		[TCV_Service = C_Telephony]			
5		(TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mt := Setup_01(TI_02))			Speech
6		+local_IFsetup_Telephony			Config speech
7		[TCV_Service = C_AltSpchFax]			
8		+TS61MT(C_AltSpchFax)			Speech/fax
9		[TCV_Service = C_AutoFax]			
10		+TS62MT(C_AutoFax)			Auto fax
11		[TCV_Service = C_Async300]			
12		+BS2xMT(C_Async300, TSPX_BS_21_more_itc, TSPX_BS_21_T_NT, TSPX_BS_21_itc1, TSPX_BS_21_itc2, C_300bs, C_modemt_V21, TSPX_BS_21_ce)			BS21
13		[TCV_Service = C_Async1200]			
14		+BS2xMT(C_Async1200, TSPX_BS_22_more_itc, TSPX_BS_22_T_NT, TSPX_BS_22_itc1, TSPX_BS_22_itc2, C_1200bs, C_modemt_V22, TSPX_BS_22_ce)			BS22
15		[TCV_Service = C_Async2400]			
16		+BS2xMT(C_Async2400, TSPX_BS_24_more_itc, TSPX_BS_24_T_NT, TSPX_BS_24_itc1, TSPX_BS_24_itc2, C_2400bs, C_modemt_V22bis, TSPX_BS_24_ce)			BS24
17		[TCV_Service = C_Async4800]			
18		+BS2xMT(C_Async4800, TSPX_BS_25_more_itc, TSPX_BS_25_T_NT, TSPX_BS_25_itc1, TSPX_BS_25_itc2, C_4800bs, C_modemt_V32, TSPX_BS_25_ce)			BS25
19		[TCV_Service = C_Async9600]			
20		+BS2xMT(C_Async9600, TSPX_BS_26_more_itc, TSPX_BS_26_T_NT, TSPX_BS_26_itc1, TSPX_BS_26_itc2, C_9600bs, C_modemt_V32, TSPX_BS_26_ce)			BS26
21		[TCV_Service = C_Sync1200]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+BS3xMT(C_Sync1200, TSPX_BS_31_more_itc, C_No, TSPX_BS_31_more_sacp, TSPX_BS_31_itc1, TSPX_BS_31_itc2, TSPX_BS_31_sacp1, TSPX_BS_31_sacp2, C_1200bs, C_transparent)			BS31
23		[TCV_Service = C_Sync2400]			
24		+BS3xMT(C_Sync2400, TSPX_BS_32_more_itc, TSPX_BS_32_X32_T_NT, TSPX_BS_32_more_sacp, TSPX_BS_32_itc1, TSPX_BS_32_itc2, TSPX_BS_32_sacp1, TSPX_BS_32_sacp2, C_2400bs, TSPX_BS_32_X32_ce)			BS32
25		[TCV_Service = C_Sync4800]			
26		+BS3xMT(C_Sync4800, TSPX_BS_33_more_itc, TSPX_BS_33_X32_T_NT, TSPX_BS_33_more_sacp, TSPX_BS_33_itc1, TSPX_BS_33_itc2, TSPX_BS_33_sacp1, TSPX_BS_33_sacp2, C_4800bs, TSPX_BS_33_X32_ce)			BS33
27		[TCV_Service = C_Sync9600]			
28		+BS3xMT(C_Sync9600, TSPX_BS_34_more_itc, TSPX_BS_34_X32_T_NT, TSPX_BS_34_more_sacp, TSPX_BS_34_itc1, TSPX_BS_34_itc2, TSPX_BS_34_sacp1, TSPX_BS_34_sacp2, C_9600bs, TSPX_BS_34_X32_ce)			BS34
29		[TCV_Service = C_AltSpchData]			
30		+BS61or81MT(C_AltSpchData, TSPX_BS_61_A, TSPX_BS_61_A_ur1_T_NT, TSPX_BS_61_A_ur2_T_NT, TSPX_BS_61_A_more_ur, TSPX_BS_61_S, TSPX_BS_61_S_more_ur, TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur2, TSPX_BS_61_S_ur1, TSPX_BS_61_S_ur2, C_RI_alternate, TSPX_BS_61_A_ur1_ce)			BS61
31		[TCV_Service = C_SpchData]			
32		+BS61or81MT(C_SpchData, TSPX_BS_81_A, TSPX_BS_81_A_ur1_T_NT, TSPX_BS_81_A_ur2_T_NT, TSPX_BS_81_A_more_ur, TSPX_BS_81_S, TSPX_BS_81_S_more_ur, TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur2, TSPX_BS_81_S_ur1, TSPX_BS_81_S_ur2, C_RI_follow, TSPX_BS_81_A_ur1_ce)			BS81

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33	L_0937	[(TCV_Service <> C_Telephony) AND (TCV_Service <> C_AltSpchFax) AND (TCV_Service <> C_AutoFax) AND (TCV_Service <> C_Async300) AND (TCV_Service <> C_Async1200) AND (TCV_Service <> C_Async2400) AND (TCV_Service <> C_Async4800) AND (TCV_Service <> C_Async9600) AND (TCV_Service <> C_Sync1200) AND (TCV_Service <> C_Sync2400) AND (TCV_Service <> C_Sync4800) AND (TCV_Service <> C_Sync9600) AND (TCV_Service <> C_AltSpchData) AND (TCV_Service <> C_SpchData)]		I	
		local_IFsetup_Telephony			
34		[TCV_supported]			
35		(TCV_Null := OO_IFsetup_Telephony())			
36		[NOT TCV_supported]			
37		[TCV_SpecialCase]			
38		START T_dly(C_T_Wait)			
39		?TIMEOUT T_dly			
40	L_0938	[NOT TCV_SpecialCase]		I	parameter error
Detailed Comments : This test step is called in the preamble of test cases where an MT call is established in the test body.					

Test Step Dynamic Behaviour					
Test Step Name : BasicServiceMTorTelephony(svc : SERVICES; rate : RATE)					
Group : Preambles/					
Objective : To get a MT SETUP message with right BC IE.					
Default : OtherEvents					
Comments : Used for CC tests					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		[TSPC_Serv_TS11]			
2		+BasicServiceMT(C_Telephony,TSPX_Telephony_Rate)			
3		[NOT TSPC_Serv_TS11]			
4		+BasicServiceMT(svc,rate)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : BS2xMO(srv : SERVICES; sacp: B_3; both : BOOLEAN; itc1 : B_3; ur : B_4; modem : B_5; ce : B_2)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS2x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := ce, TCV_ir := C_ir_16kbs)			
2		+local_pixitvaluechk			validate IXIT values
3		+local_selectCe			select a connection element
4		+local_bcap			generate BC
5		+local_setupmsg			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(TCV_srv, itc1, sacp, TCV_ce, TCV_ChRate))			ask test operator to configure the MS
		local_bcap			
8		[NOT both]			
9		[TCV_ce = C_notransparent]			
10		[itc1 = C_UDI]			
11		+local_BS2x_UDI_NT(C_notransparent, sacp)			
12		[itc1 = C_3100Hz]			
13		+local_BS2x_3100_NT(C_notransparent, sacp)			
14		[TCV_ce = C_transparent]			CE:T only MS
15		[itc1 = C_UDI]			
16		+local_BS2x_UDI_T(sacp)			
17		[itc1 = C_3100Hz]			
18		+local_BS2x_3100_T(sacp)			
19		[both]			
20		[TCV_ce = C_transparent]			
21		[itc1 = C_UDI]			
22		+local_BS2x_UDI_Tboth(TCV_CE,sacp)			
23		[itc1 = C_3100Hz]			3.1kHz
24		+local_BS2x_3100_Tboth(TCV_CE, sacp)			
25		[(TCV_ce = C_notransparent)]			
26		[itc1 = C_UDI]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		+local_BS2x_UDI_NT(TCV_CE,sacp)			
28		[itc1 = C_3100Hz]			3.1kHz
29		+local_BS2x_3100_NT(TCV_CE, sacp)			
		local_BS2x_3100_NT(cel: B_2; sacp : B_3)			
30		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUintegrity, C_nirr_dontcare, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.2
		local_BS2x_UDI_NT(cel: B_2; sacp : B_3)			
31		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_dontcare, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.4
		local_BS2x_3100_T(sacp : B_3)			
32		[ur = C_9600bs]			
33		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, modem))			11.8.2.1 .1.1
34		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
35		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, modem), TCV_ir := C_ir_8kbs)			11.8.2.1 .1.1
		local_BS2x_UDI_T(sacp : B_3)			
36		[ur = C_9600bs]			
37		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, C_modemt_none))			11.8.2.1 .1.3
38		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
39		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_none), TCV_ir := C_ir_8kbs)			11.8.2.1 .1.3
		local_BS2x_3100_Tboth(cel: B_2; sacp : B_3)			
40		[ur <> C_9600bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_dontcare, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.1 conbinrd with 11.8.2.1 .1.2 , CE and structure without exact match
42		[ur = C_9600bs]			
43		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_nomeaning, C_no_rate_adaption, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))			11.8.2.1 .1.1 conbinrd with 11.8.2.1 .1.2 , CE and structure without exact match
		local_BS2x_UDI_Tboth(cel: B_2; sacp : B_3)			
44		[ur = C_9600bs]			
45		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.3 conbine d with 11.8.2.1 .1.4, CE and structure without exact match
46		[ur <> C_9600bs]			
47		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_dontcare, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, cel, C_modemt_none, C_uil2p_dontcare))			11.8.2.1 .1.3 conbine d with 11.8.2.1 .1.4, CE and structure without exact match
		local_setupmsg			
48		[itc1 = C_UDI]			
49		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS2xOrBS4x_UDI, Hlcmp_AnyOrOmit))			
50		[itc1 = C_3100Hz]			
51		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_BS2xOrBS61aOrBS81a_3100, Hlcmp_AnyOrOmit))			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_selectCe			
52		[both]			
53		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			
54		(TCV_ce := C_notransparent)			
55		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
56		(TCV_ce := C_transparent)			
57		[NOT both]			
58		(TCV_ce := ce)			
		local_pixitvaluechk			
59	L_0939	[(ce <> C_transparent) AND (ce <> C_notransparent) AND (NOT both)]		I	IXIT error
60	L_0940	[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
61	L_0941	[(sacp <> C_I440_450) AND (sacp <> C_X28_nond)]		I	IXIT error
62		[C_Yes]			IXIT values OK

Detailed Comments : The BS2x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.1.1.1, section 11.8.2.1.1.2, section 11.8.2.1.1.3 and section 11.8.2.1.1.4 of GSM 11.10 and section B.1.2.1, section B.1.2.2, section B.1.2.1 and section B.2.2.2 of GSM 07.01.

The algorithm for selecting parameters:
IF (TSPX_BS_2x_T_NT)
    TCV_ce := C_notransparent
ELSE
    TCV_ce := TSPX_BS_2x_ce

use (TCV_ce, TSPX_BS_2x_itc1, TSPX_BS_2x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO

Test Step Dynamic Behaviour

Test Step Name : BS2xMT(srv : SERVICES; more, both : BOOLEAN; itc1, itc2 : B_3; ur : B_4; modem : B_5; ce : B_2)

Group : Preambles/

Objective : To generate an MT SETUP message with appropriate Bcap for BS2x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
		local_main			
3		(TCV_srv := srv, TCV_itc := itc1)			
4		+local_bcap1			
5		(TCV_Setup_mt := Setup_20(TCV_BcapMT1, TI_02))			1st SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			Ini ch mode
7		+local_bcap2			
8		(TCV_Setup_mt1:= Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)			2nd SETUP
		local_bcap1			
9		[itc1 = C_3100Hz]			3.1kHz
10		[both OR (ce = C_notransparent)]			
11		+local_BS2x_3100_NT(C_notransparent)			
12		[NOT both AND (ce = C_transparent)]			
13		+local_BS2x_3100_T			
14		[itc1 = C_UDI]			UDI
15		[both OR (ce = C_notransparent)]			
16		+local_BS2x_UDI_NT(C_notransparent)			
17		[NOT both AND (ce = C_transparent)]			
18		+local_BS2x_UDI_T			
19	L_0942	[(itc1 <> C_3100Hz) AND (itc1 <> C_UDI)]		I	
		local_bcap2			
20		+local_itc			
21		+local_bcap			
22		(TCV_BcapMT2 := TCV_BcapMT1)			
		local_itc			
23		(TCV_itc2 := itc1)			
24		[more]			3.1 kHz
25		(TCV_itc2 := itc2)			
26		[NOT more]			
		local_bcap			
27		[both AND (TCV_itc2 = C_3100Hz)]			
28		+local_BS2x_3100_T			
29		[both AND (TCV_itc2 = C_UDI)]			UDI
30		+local_BS2x_UDI_T			
31		[NOT both AND (TCV_itc2 = C_3100Hz)]			
32		+local_BS2x_3100_NT(C_BothT)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
33		[NOT both AND (TCV_itc2 = C_UDI)]			UDI
34		+local_BS2x_UDI_NT(C_BothT)			
35	L_0943	[(TCV_itc2 <> C_3100Hz) AND (TCV_itc2 <> C_UDI)] local_BS2x_3100_NT(cel: B_2)		I	
36		[TSPX_TE_FLCT = C_Inband]			
37		(TCV_BcapMT1 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modem, C_ISO6429), TCV_ce := cel)			11.8.1.1.1.2
38		[TSPX_TE_FLCT = C_Nocontrol]			
39		(TCV_BcapMT1 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modem, C_COPnoFLCT), TCV_ce := cel)			11.8.1.1.1.2
40	L_0944	[(TSPX_TE_FLCT = C_Outband) OR ((TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol))] local_BS2x_UDI_NT(cel: B_2)		I	
41		[TSPX_TE_FLCT = C_Outband]			
42		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none), TCV_ce := cel)			11.8.1.1.1.4
43		[TSPX_TE_FLCT = C_Inband]			
44		(TCV_BcapMT1 := BcapX_MT(C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none, C_ISO6429), TCV_ce := cel)			11.8.1.1.1.4
45		[TSPX_TE_FLCT = C_Nocontrol]			
46		(TCV_BcapMT1 := BcapX_MT(C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, C_modemt_none, C_COPnoFLCT), TCV_ce := cel)			11.8.1.1.1.4
47	L_0945	[(TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)] local_BS2x_3100_T		I	
48		[ur = C_9600bs]			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		(TCV_BcapMT1 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, C_transparent, modem), TCV_itc2 := C_3100Hz, TCV_ce := C_transparent)			11.8.1.1 .1.1
50		[ur <> C_9600bs]			
51		(TCV_BcapMT1 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity, C_transparent, modem), TCV_itc2 := C_3100Hz, TCV_ce := C_transparent)			11.8.1.1 .1.1
		local_BS2x_UDI_T			
52		[ur = C_9600bs]			
53		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, C_transparent, C_modemt_none), TCV_itc2 := C_UDI, TCV_ce := C_transparent)			11.8.1.1 .1.3
54		[ur <> C_9600bs]			
55		(TCV_BcapMT1 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity, C_transparent, C_modemt_none), TCV_itc2 := C_UDI, TCV_ce := C_transparent)			11.8.1.1 .1.3
		local_IFsetup			
56		[TCV_supported]			
57		(TCV_Null := OO_IFsetup_BS2x_MT(TCV_srv, TCV_itc))			
58		[NOT TCV_supported]			
59		[TCV_SpecialCase]			
60		START T_dly(C_T_Wait)			
61		?TIMEOUT T_dly			
62	L_0946	[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of BS2x Bearer Capabilities :

The Bearer Capability for 1st SETUP (used for an MT call):
itc= TSPX_BS_2x_itc1
IF itc=3.1kHz
  IF TSPX_BS_2x_T_MT OR (NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = NT))
    use coding of sec. 11.8.1.1.1.2 with (ce=NT)
  ELSE IF NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = T)
        use coding of sec. 11.8.1.1.1.1 with (ce=T)
ELSE IF itc=udi

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Test Step Dynamic Behaviour
Detailed Comments : ... IF TSPX_BS_2x_T_MT OR (NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = NT)) use coding of sec. 11.8.1.1.1.4 with (ce=NT) ELSE IF NOT TSPX_BS_2x_T_MT AND (TSPX_BS_2x_ce = T) use coding of sec. 11.8.1.1.1.3 with (ce=T) The derived 2nd Bearer Capability for 2nd SETUP: (used for TC_11_1_1) IF TSPX_BS_2x_more_itc itc=TSPX_BS_2x_itc2 ELSE itc= TSPX_BS_2x_itc1 IF TSPX_BS_2x_T_NT IF itc=3.1kHz use coding of sec. 11.8.1.1.1.1 with (ce=T) IF itc=udi use coding of sec. 11.8.1.1.1.3 with (ce=T) ELSE IF itc=3.1Khz use coding of sec. 11.8.1.1.1.2 with (ce=both/T) IF itc=udi use coding of sec. 11.8.1.1.1.4 with (ce=both/T)

Test Step Dynamic Behaviour

Test Step Name : BS3xMO(srv : SERVICES; both : BOOLEAN; itc1, sacp1 : B_3; ur : B_4; ce : B_2; modem : B_5)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS3x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := C_BothT, TCV_ir := C_ir_16kbs, TCV_uil1p := C_no_rate_adaption)			
2		+local_pixitvaluechk			2.
3		+local_selectCe			select a CE
4		+local_bcap			generate BC
5		+local_setupmsg			3.
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(TCV_srv, itc1, sacp1, TCV_ce, TCV_ChRate))			ask test operator to configure the MS
		local_bcap			
8		[NOT both]			
9		[TCV_ce = C_notransparent]			
10		[itc1 = C_UDI]			
11		[sacp1 = C_X32]			
12		+local_BS3x_UDI_X32_NT			
13	L_0947	[sacp1 <> C_X32]		I	5.
14		[itc1 = C_3100Hz]			
15	L_0948	[sacp1 <> C_X32]		I	6.
16		[sacp1 = C_X32]			
17		+local_BS3x_3100_X32_NT(C_notransparent)			
18		[TCV_ce = C_transparent]			CE:T only MS
19		[itc1 = C_UDI]			
20	L_0949	[sacp1 = C_X32]		I	7.
21		[sacp1<> C_X32]			
22		+local_BS3x_UDI_T(sacp1)			
23		[itc1 = C_3100Hz]			
24	L_0950	[sacp1 = C_X21]		I	8.
25		[sacp1 = C_I440_450]			
26		+local_BS3x_3100_T			
27		[sacp1 = C_X32]			
28		+local_BS3x_3100_X32_T			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		[both]			
30		[TCV_ce = C_transparent]			
31		[itc1 = C_UDI]			
32	L_0951	[sacp1 = C_X32]		I	7.
33		[sacp1<> C_X32]			
34		+local_BS3x_UDI_T(sacp1)			
35		[itc1 = C_3100Hz]			3.1kHz
36	L_0952	[sacp1 = C_X21]		I	8.
37		[sacp1 = C_I440_450]			
38		+local_BS3x_3100_T			
39		[sacp1 = C_X32]			
40		(TCV_bcapListIndicator := TCV_bcapListIndicator + 1)			
41		+local_BS3x_3100_X32_NT(TCV_CE)			
42		[(TCV_ce = C_notransparent)]			
43		[itc1 = C_UDI]			
44		[sacp1 = C_X32]			
45		+local_BS3x_UDI_X32_NT			
46	L_0953	[sacp1 <> C_X32]		I	5.
47		[itc1 = C_3100Hz]			3.1kHz
48	L_0954	[sacp1 <> C_X32]		I	6.
49		[sacp1 = C_X32]			
50		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
51		+local_BS3x_3100_X32_Tboth(TCV_CE)			
		local_setupmsg			
52		[itc1 = C_UDI]			
53		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS3x_UDI, Hlcmp_AnyOrOmit))			
54		[itc1 = C_3100Hz]			
55		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_BS3xOrBS61sOrBS81s_3100, Hlcmp_AnyOrOmit))			
		local_BS3x_3100_T			
56		[ur = C_9600bs]			
57		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, modem))			11.8.2.2.1.1
58		[ur <> C_9600bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
59		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.1
		local_BS3x_UDI_T(sacp : B_3)			
60		[ur = C_9600bs]			
61		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, C_modemt_none), TCV_uil1p := C_rate_adaption_V110)			11.8.2.2 .1.2
62		[NOT (ur = C_9600bs)]			
63		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, C_modemt_none), TCV_ir := C_ir_8kbs, TCV_uil1p := C_rate_adaption_V110)			11.8.2.2 .1.2
		local_BS3x_3100_X32_T			
64		[ur = C_9600bs]			
65		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.3
66		[ur <> C_9600bs]			
67		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs, C_parity_NA, C_transparent, modem))			11.8.2.2 .1.3
		local_BS3x_3100_X32_NT(ce2 : B_2)			
68		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUintegrity, C_nirr_dontcare, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce2, modem, C_X25_flct), TCV_bcapListIndicator))			11.8.2.2 .1.4
		local_BS3x_UDI_X32_NT			
69		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_dontcare, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flct), TCV_bcapListIndicator), TCV_uil1p := C_rate_adaption_X31)			11.8.2.2 .1.5
		local_BS3x_3100_X32_Tboth(ce2 : B_2)			
70		[ur = C_9600bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
71		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce2, modem, C_X25_flct), TCV_bcapListIndicator))			11.8.2.2.1.3 combined with 11.8.2.2.1.4, CE and structure without exact match
72		[ur <> C_9600bs]			
73		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_3100Hz, C_struc_dontchk, C_nirr_dontcare, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_8or16kbs, C_parity_NA, ce2, modem, C_X25_flct), TCV_bcapListIndicator))			11.8.2.2.1.3 combined with 11.8.2.2.1.4, CE, IR and structure without exact match
		local_selectCe			
74		[both]			
75		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			
76		(TCV_ce := C_transparent)			
77		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
78		(TCV_ce := C_notransparent)			
79		[NOT both]			
80		(TCV_ce := ce)			
		local_pixitvaluechk			
81	L_0955	[(ce <> C_transparent) AND (ce <> C_notransparent) AND (NOT both)]		I	IXIT error
82	L_0956	[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
83	L_0957	[(sacp1 <> C_I440_450) AND (sacp1 <> C_X21) AND (sacp1 <>C_X32)]		I	IXIT error
84	L_0958	[(ur = C_1200bs) AND (sacp1 = C_X32)]		I	4.
85		[C_Yes]			IXIT values OK, but combination not checked yet

Detailed Comments : 1. The BS3x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.2.1.1, section 11.8.2.2.1.2, section 11.8.2.2.1.3, section 11.8.2.2.1.4 and section 11.8.2.2.1.5 of GSM 11.10 and section B.1.3.1.1, section B.1.3.1.2, section B.1.3.2.1, section B.1.3.2.2, section B.2.3.1 and section B.2.3.2 of GSM 07.01.
2. validate IXIT values.
3. generate SETUP.

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Test Step Dynamic Behaviour

Detailed Comments : ...

4. IXIT error, BS31 does not support X32.
5. IXIT error, UDI non−X32 case has no non transparent mode.
6. IXIT error, 3.1kHz non−X32 case has no non transparent mode.
7. IXIT error, UDI X32 case has no transparent mode.
8. IXIT error, 3.1kHz case has no X21 signalling access protocol.

The algorithm for selecting parameters:

```
IF (TSPX_BS_3x_T_NT)
        TCV_ce := C_notransparent
ELSE
        TCV_ce := TSPX_BS_3x_ce

use (TCV_ce, TSPX_BS_3x_itc1, TSPX_BS_3x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO
```

Test Step Dynamic Behaviour

Test Step Name : BS3xMT(srv : SERVICES; more_itc, both, more_sacp : BOOLEAN; itc1, itc2, sacp1, sacp2 : B_3; ur : B_4; ce : B_2)

Group : Preambles/

Objective : To generate an MT SETUP message with appropriate Bcap for BS3x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
		local_main			
3		(TCV_srv := srv, TCV_ur := ur, TCV_ur2 := ur, TCV_ce := C_transparent)			
4		+local_bcap1			
5		(TCV_BcapMT1 := TCV_BcapMT2)			
6		[more_itc OR more_sacp OR (itc1 = C_3100Hz) AND (sacp1 = C_X32)]			
7		[more_itc]			
8		+local_bcap2			
9		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)			2nd SETUP
10		[NOT more_itc]			
11		[itc1 = C_3100Hz]			
12		(TCV_itc2 := C_3100Hz)			
13		[more_sacp]			
14		+local_3100_1(sacp2)			
15		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp2)			2nd SETUP
16		[NOT more_sacp]			
17		[sacp1 = C_I440_450]			no second BC
18		[sacp1 = C_X32]			
19		+local_3100_1(sacp1)			
20		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp1)			2nd SETUP
21	L_0959	[(sacp1 <> C_I440_450) AND (sacp1 <> C_X32)]		I	
22		[itc1 = C_UDI]			
23		[more_sacp]			
24		+local_UDI(sacp2)			
25		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_sacp2 := sacp2, TCV_itc2 := C_UDI)			2nd SETUP
26		[NOT more_sacp]			no second BC

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		[(NOT more_itc) AND (NOT more_sacp) AND ((NOT(itc1=C_3100Hz)) OR (NOT(sacp1=C_X32)))]			
		local_bcap1			
28		[itc1 = C_3100Hz]			
29		+local_3100(sacp1)			
30		(TCV_itc := C_3100Hz, TCV_sacp := sacp1)			
31		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02), TCV_sacp := sacp1)			1st SETUP
32		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
33		[itc1 = C_UDI]			
34		+local_UDI(sacp1)			
35		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02), TCV_sacp := sacp1, TCV_itc := C_UDI)			
36		[sacp1 = C_X32]			
37		+Chmod(TCV_ChRate, C_notransparent, ur, srv)			
38		[NOT (sacp1 = C_X32)]			
39		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
40	L_0960	[(itc1 <> C_3100Hz) AND (itc1 <> C_UDI)]		I	
		local_bcap2			
41		[itc2 = C_3100Hz]			
42		[more_sacp]			
43		+local_3100_1(sacp2)			
44		(TCV_itc2 := C_3100Hz, TCV_sacp2 := sacp2)			
45		[NOT more_sacp AND (sacp1 <> C_X21)]			
46		+local_3100_1(sacp1)			
47		(TCV_itc2 := C_3100Hz, TCV_sacp2 := sacp1)			
48		[NOT more_sacp AND (sacp1 = C_X21)]			no second BC
49		[itc2 = C_UDI]			
50		[more_sacp]			
51		+local_UDI(sacp2)			
52		(TCV_itc2 := C_UDI, TCV_sacp2 := sacp2)			
53		[NOT more_sacp]			
54		+local_UDI(sacp1)			
55		(TCV_itc2 := C_UDI, TCV_sacp2 := sacp1)			
56	L_0961	[(itc2 <> C_3100Hz) AND (itc2 <> C_UDI)]		I	
		local_3100(sacp : B_3)			
57		[sacp = C_I440_450]			
58		+local_BS3x_3100			
59		[sacp = C_X32]			
60		[NOT (ur= C_1200bs)]			
61		[both OR (ce = C_notransparent)]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
62		+local_BS3x_3100_X32_NT(C_notransparent)			
63		(TCV_ce := C_notransparent)			
64		[NOT both AND (ce = C_transparent)]			
65		+local_BS3x_3100_X32_T			
66	L_0962	[ur= C_1200bs]		I	BS31 not support X32
67	L_0963	[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
		local_3100_1(sacp : B_3)			
68		[sacp = C_I440_450]			
69		+local_BS3x_3100			
70		[sacp = C_X32]			
71		+local_BS3x_3100_X32_NT(C_BothT)			
72	L_0964	[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
		local_UDI(sacp : B_3)			
73		[sacp = C_I440_450]			
74		[ur = C_9600bs]			
75		+ltree_BS3x_UDI_I440_T(C_ir_16kbs)			
76		[ur <> C_9600bs]			
77		+ltree_BS3x_UDI_I440_T(C_ir_8kbs)			
78		[sacp = C_X21]			
79		[ur = C_9600bs]			
80		+ltree_BS3x_UDI_X21_T(C_ir_16kbs)			
81		[ur <> C_9600bs]			
82		+ltree_BS3x_UDI_X21_T(C_ir_8kbs)			
83		[sacp = C_X32]			
84		[ur <> C_1200bs]			
85		+ltree_BS3x_UDI_X32_NT			
86	L_0965	[ur = C_1200bs]		I	
87	L_0966	[(sacp <> C_I440_450) AND (sacp <> C_X21) AND (sacp <> C_X32)]		I	
		ltree_BS3x_3100_T(ir : B_2; modemt : B_5)			
88		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt))			11.8.1.2.1.1
		ltree_BS3x_UDI_I440_T(ir : B_2)			
89		(TCV_BcapMT2 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.2.1.2
		ltree_BS3x_UDI_X21_T(ir : B_2)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
90		(TCV_BcapMT2 := Bcap_MT(C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_X21, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.2 .1.2
		ltree_BS3x_3100_X32_T(ir : B_2; modemt : B_5)			
91		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt))			11.8.1.2 .1.3
		ltree_BS3x_3100_X32_NT(modemt : B_5; ce1 : B_2)			
92		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, modemt, C_X25_flct))			11.8.1.2 .1.4
		ltree_BS3x_UDI_X32_NT			
93		(TCV_BcapMT2 := BcapX_MT(C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flct))			11.8.1.2 .1.5
		local_BS3x_3100			
94		[ur = C_1200bs]			
95		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V22)			
96		[ur = C_2400bs]			
97		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V22bis)			
98		[ur = C_4800bs]			
99		+ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V32)			
100		[ur = C_9600bs]			
101		+ltree_BS3x_3100_T(C_ir_16kbs, C_modemt_abt1)			
102	L_0967	[(ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
		local_BS3x_3100_X32_NT(ce2 : B_2)			
103		[ur = C_2400bs]			
104		+ltree_BS3x_3100_X32_NT(C_modemt_V22bis, ce2)			
105		[(ur = C_4800bs) OR (ur = C_9600bs)]			
106		+ltree_BS3x_3100_X32_NT(C_modemt_V32, ce2)			
107	L_0968	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
		local_BS3x_3100_X32_T			
108		[ur = C_2400bs]			
109		+ltree_BS3x_3100_X32_T(C_ir_8kbs, C_modemt_V22bis)			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
110		[ur = C_4800bs]			
111		+ltree_BS3x_3100_X32_T(C_ir_8kbs, C_modemt_V32)			
112		[ur = C_9600bs]			
113		+ltree_BS3x_3100_X32_T(C_ir_16kbs, C_modemt_V32)			
114	L_0969	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
		local_IFsetup			
115		[TCV_supported]			
116		(TCV_Null := OO_IFsetup_BS3x_MT(TCV_srv, TCV_itc, TCV_sacp))			
117		[NOT TCV_supported]			
118		[TCV_SpecialCase]			
119		START T_dly(C_T_Wait)			
120		?TIMEOUT T_dly			
121	L_0970	[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of BS3x Bearer Capabilities :

```
The Bearer Capability for 1st SETUP ( used for an MT call):
itc= TSPX_BS_3x_itc1
sacp= TSPX_BS_3x_sacp1
IF itc= 3.1Khz
    IF sacp= I440 use coding of sec. 11.8.1.2.1.1 with (ce=T)
    IF sacp= X32
        IF TSPX_BS_3x_T_NT OR (TSPX_BS_3x_ce = NT)
            use coding of sec. 11.8.1.2.1.4 with (ce= NT)
        IF NOT TSPX_BS_3x_T_NT AND (TSPX_BS_3x_ce = T)
            use coding of sec. 11.8.1.2.1.3 with (ce= T)
IF itc=udi
    IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
    IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)
    IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)

The derived 2nd Bearer Capability for 2nd SETUP (used for TC_11_1_ only):
    Note: the 2nd BC is derived only IF
      TSPX_BS_3x_more_itc OR TSPX_BS_3x_more_sacp OR
      ((TSPX_BS_3x_itc1 = 3.1kHZ) AND (TSPX_BS_3x_scap1 = X32))
 IF TSPX_BS_3x_more_itc
   itc= TSPX_BS_3x_itc2
      IF itc= 3.1kHz
         IF TSP_BS_3x_more_sacp
           sacp= TSPX_BS_3x_sacp2
         ELSE
           sacp = TSPX_BS_3x_sacp1
         IF sacp= I440 use coding of sec. 11.8.1.2.1.1 with (ce=T)
         IF sacp= X32 use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
      IF itc= udi
         IF TSP_BS_3x_more_sacp
           sacp= TSPX_BS_3x_sacp2
             IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
             IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)
             IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
          ELSE
            sacp= TSPX_BS_3x_sacp1
             IF sacp=I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
```

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Test Step Dynamic Behaviour

Detailed Comments : ...

```
                    IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
ELSE
 itc= TSPX_BS_3x_itc1
    IF itc= 3.1kHz
      IF TSPX_BS_3x_more_sacp
        sacp= TSPX_BS_3x_sacp2
       IF sacp= I440
            use coding of sec. 11.8.1.2.1.1 with (ce=T)
       IF sacp= X32
            use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
      ELSE
        sacp= TSPX_BS_3x_sacp1
       IF sacp= I440 no second Bearer Capability
       IF sacp= X32 use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
   IF itc= udi
      IF TSP_BS_3x_more_sacp
       sacp= TSPX_BS_3x_sacp2
         IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
         IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)
         IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
       ELSE
        sacp= TSPX_BS_3x_sacp1
           IF sacp=I440 no second Bearer Capability
           IF sacp=X21  no second Bearer Capability
           IF sacp= X32 no second Bearer Capability
```

Test Step Dynamic Behaviour

Test Step Name : BS4xMO(srv : SERVICES; ur : B_4; ce : B_2; both : BOOLEAN)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap and LLC for BS4x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur, TCV_CE := C_BothT, TCV_ir := C_ir_16kbs)			
2		+local_pixitvaluechk			validate IXIT values
3		+local_selectCe			select a CE
4		+local_bcap			generate BC
5		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS2xOrBS4x_UDI, Hlcmp_AnyOrOmit))			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_BS4x_MO(TCV_srv, TCV_ce, TCV_ChRate))			ask test operator to set up the MS
		local_bcap			
8		[NOT both]			
9		[TCV_ce = C_notransparent]			
10		+local_BS4x_UDI_NT(C_notransparent)			
11		[TCV_ce = C_transparent]			CE:T only MS
12		[ur = C_9600bs]			
13		+local_BS4x_UDI_T(C_ir_16kbs)			
14		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
15		+local_BS4x_UDI_T(C_ir_8kbs)			
16		[both]			
17		[TCV_ce = C_transparent]			
18		(TCV_bcapListIndicator := TCV_bcapListIndicator + 1)			
19		+local_BS4x_UDI_Tboth(TCV_CE)			
20		[(TCV_ce = C_notransparent)]			
21		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
22		+local_BS4x_UDI_NT(TCV_CE)			
		local_BS4x_UDI_T(ir : B_2)			
23		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, C_transparent, C_modemt_none), TCV_ir := ir)			11.8.2.3 .1.1

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_BS4x_UDI_NT(ce1 : B_2)			
24		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
25		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_dontcare, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare), TCV_bcapListIndicator))			11.8.2.3 .1.2
26		[ur = C_9600bs]			
27		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare), TCV_bcapListIndicator))			11.8.2.3 .1.2
		local_BS4x_UDI_Tboth(ce1 : B_2)			
28		[(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
29		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_dontcare, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare), TCV_bcapListIndicator))			11.8.2.3 .1.2 conbine d with 11.8.2.3 .1.1, CE, IR and structure without exact match
30		[ur = C_9600bs]			
31		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_UDI, C_struc_dontchk, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8or16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare), TCV_bcapListIndicator))			11.8.2.3 .1.2 conbine d with 11.8.2.3 .1.1, CE, IR and structure without exact match
		local_pixitvaluechk			
32	L_097 1	[(ce <> C_transparent) AND (ce <> C_notransparent) AND (NOT both)]		I	IXIT error
33		[C_Yes]			IXIT values OK
		local_selectCe			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		[both]			
35		[(ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]			
36		(TCV_ce := C_notransparent)			
37		[(ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]			
38		(TCV_ce := C_transparent)			
39		[NOT both]			
40		(TCV_ce := ce)			

Detailed Comments : The BS4x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.3.1.1 and section 11.8.2.3.1.2 of GSM 11.10 and section B.1.4 and section B.2.2.1 of GSM 07.01.

The algorithm for selecting parameters:

```
IF (TSPX_BS_4x_T_NT)
        IF (user rate is one of the C_300bs, C_120075bs, C_4800bs)
                TCV_ce := C_notransparent
        ELSE   /* user rate is one of C_1200bs, C_2400bs, C_9600bs */
                TCV_ce := C_transparent
ELSE
        TCV_ce := TSPX_BS_4x_ce

use (TCV_ce, TSPX_BS_4x_ur, svc) for OO_IFsetup_BS4x_MO
```

Test Step Dynamic Behaviour

Test Step Name : BS5xMO(srv : SERVICES; ur : B_4)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap for BS5x service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := ur)			
2		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flct))			11.8.2.4 .1
3		(TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS5x, Hlcmp_AnyOrOmit))			
4		+Chmod(TCV_ChRate, C_notransparent, ur, srv)			channel mode
5		(TCV_Null := OO_IFsetup_BS5x_MO(TCV_srv, TCV_ur, TCV_ChRate))			

Detailed Comments : 1. Bearer Caoability is coded according to section 11.8.2.4.1 of GSM 11.10 ver 4.16
2. low layer compatibility is coded according to section B.2.5 of GSM 07.01 ver 4.90

Test Step Dynamic Behaviour

Test Step Name : BS61or81MO(srv : SERVICES; async, both: BOOLEAN; a_ur1: B_4; ce : B_2; sync : BOOLEAN; s_ur1: B_4; ri : B_8)

Group : Preambles/

Objective : To get a MO SETUP message with right BC IE and LLC for BS61 or BS81 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_CE := ce, TCV_ir := C_ir_8kbs)			
2		+local_pixitvaluechk			1.
3		+local_selectSaAndCe			2.
4		+local_bcap			generate BC
5		+local_setupmsg			generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			
7		(TCV_Null := OO_IFsetup_BS61orBS81_MO(TCV_srv, TCV_ur, TCV_sa, TCV_ce, TCV_ChRate))			
		local_bcap			
8		[TCV_sa = C_Synchronous]			
9		[TCV_ur = C_1200bs]			
10		(TCV_MODEM.v_abt1 := C_modemt_V22)			
11		+local_BS61or81_S_T(C_ir_8kbs, C_1200bs, TCV_MODEM.v_abt1)			
12		[TCV_ur = C_2400bs]			
13		(TCV_MODEM := V22bisOrV26ter)			
14		+local_BS61or81_S_T(C_ir_8kbs, C_2400bs, TCV_MODEM.v_abt1)			
15		[TCV_ur = C_4800bs]			
16		(TCV_MODEM.v_abt1 := C_modemt_V32)			
17		+local_BS61or81_S_T(C_ir_8kbs, C_4800bs, TCV_MODEM.v_abt1)			
18		[TCV_ur = C_9600bs]			
19		(TCV_MODEM.v_abt1 := C_modemt_V32)			
20		+local_BS61or81_S_T(C_ir_16kbs, C_9600bs, TCV_MODEM.v_abt1)			
21		(TCV_ir := C_ir_16kbs)			
22		[TCV_sa = C_Asynchronous]			
23		[(TCV_ce = C_transparent) AND (NOT both)]			CE:T only MS
24		+local_BS61or81_A_T(TCV_ur)			
25		[(TCV_ce = C_notransparent) AND (NOT both)]			CE:NT only MS
26		+local_BS61or81_A_NT(TCV_ur, C_notransparent, C_SDUintegrity, C_nirr_dontcare, C_ir_16kbs)			
27		[(TCV_ce = C_notransparent) AND both]			
28		+local_BS61or81_A_NT(TCV_ur, TCV_CE, C_SDUintegrity, C_nirr_dontcare, C_ir_16kbs)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		[(TCV_ce = C_transparent) AND both]			
30		+local_BS61or81_A_NT(TCV_ur, TCV_CE, C_struc_dontchk, C_nirr_dontcare, C_ir_8or16kbs)			
		local_BS61or81_A_T(ur : B_4)			
31		[ur = C_300bs]			
32		(TCV_MODEM.v_abt1 := C_modemt_V21)			
33		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
34		[ur = C_1200bs]			
35		(TCV_MODEM.v_abt1 := C_modemt_V22)			
36		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
37		[ur = C_120075bs]			
38		(TCV_MODEM.v_abt1 := C_modemt_V23)			
39		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
40		[ur = C_2400bs]			
41		(TCV_MODEM := V22bisOrV26ter)			
42		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
43		[ur = C_4800bs]			
44		(TCV_MODEM.v_abt1 := C_modemt_V32)			
45		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
46		[ur = C_9600bs]			
47		(TCV_MODEM.v_abt1 := C_modemt_V32)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
48		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, TCV_MODEM.v_abt1))			11.8.2.5 .1
49		(TCV_ir := C_ir_16kbs)			
		local_BS61or81_A_NT(ur : B_4; ce : B_2; struc : B_2 ; nirr :B_1; ir : B_2)			
50		(TCV_ir := C_ir_16kbs)			
51		[ur = C_300bs]			
52		(TCV_MODEM := V21OrAbt1)			
53		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
54		[ur = C_1200bs]			
55		(TCV_MODEM := V22OrAbt1)			
56		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
57		[ur = C_120075bs]			
58		(TCV_MODEM := V23OrAbt1)			
59		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
60		[ur = C_2400bs]			
61		(TCV_MODEM := V22bisOrV26terOrAbt1)			
62		+local_BumpListIndicator			
63		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
64		[ur = C_4800bs]			
65		(TCV_MODEM := V32OrAbt1)			
66		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, nirr, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, ir, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
67		[ur = C_9600bs]			
68		(TCV_MODEM := V32OrAbt1)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
69		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, struc, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare))			11.8.2.5 .2
		local_BumpListIndicator			
70		[TCV_bcapListIndicator < C_modemList_ce]			
71		(TCV_bcapListIndicator := TCV_bcapListIndicator + 3)			
72		[TCV_bcapListIndicator >= C_modemList_ce]			
		local_BS61or81_S_T(ir : B_2; ur: B_4; modemt : B_5)			
73		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt))			11.8.2.5 .3
		local_pixitvaluechk			
74	L_0972	[(ce <> C_transparent) AND (ce <> C_notransparent) AND (NOT both) AND async]		I	IXIT error
75	L_0973	[(a_ur1 <> C_300bs) AND (a_ur1 <> C_1200bs) AND (a_ur1 <> C_2400bs) AND (a_ur1 <> C_4800bs) AND (a_ur1 <> C_9600bs) AND (a_ur1 <> C_120075bs) AND async]		I	IXIT error
76	L_0974	[(s_ur1 <> C_1200bs) AND (s_ur1 <> C_2400bs) AND (s_ur1 <> C_4800bs) AND (s_ur1 <> C_9600bs) AND sync]		I	IXIT error
77		[C_Yes]			IXIT values OK
		local_selectSaAndCe			
78		[async]			3.
79		(TCV_sa := C_Asynchronous, TCV_ur := a_ur1)			
80		[both]			
81		[(a_ur1 = C_300bs) OR (a_ur1 = C_120075bs) OR (a_ur1 = C_4800bs)]			
82		(TCV_ce := C_notransparent)			
83		[(a_ur1 = C_1200bs) OR (a_ur1 = C_2400bs) OR (a_ur1 = C_9600bs)]			
84		(TCV_ce := C_transparent)			
85		[NOT both]			
86		(TCV_ce := ce)			
87		[sync]			
88		(TCV_sa := C_Synchronous, TCV_ce := C_transparent, TCV_ur := s_ur1)			
		local_setupmsg			
89		[TCV_sa = C_Asynchronous]			
90		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
91		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS2xOrBS61aOrBS81a_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			Non EFR Mobile
92		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
93		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_Efr_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS2xOrBS61aOrBS81a_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			EFR Mobile
94		[TCV_sa = C_Synchronous]			
95		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
96		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS3xOrBS61sOrBS81s_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			Non EFR Mobile
97		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
98		(TCV_Setup_mo := Setup_11_3100(ri, Bcap_Speech_Efr_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_BS3xOrBS61sOrBS81s_3100, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))			EFR Mobile

Detailed Comments :

1. validate IXIT values
2. select sync or async mode and corresponding CE
3. If the MS supports both synchronous and asynchronous mode, selete the asynchronous mode
4. The BS61 or BS81 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.5.1, section 11.8.2.5.2 and section 11.8.2.5.3 of GSM 11.10 and section B.1.6.1, section B.1.6.2.1, section B.1.6.2.2, section B.2.2.2 and section B.2.3.2 of GSM 07.01.

The algorithm for selecting parameters for BS61 basice service:

```
IF (TSPX_BS_61_A)
        TCV_sa := C_Asynchronous
        IF (TSPX_BS_61_A_ur1_T_NT)
                TCV_ce := C_notransparent
        ELSE
                TCV_ce := TSPX_BS_61_A_ur1_ce
        use (TCV_sa, TCV_ce, TSPX_BS_61_A_ur1, svc) for OO_IFsetup_BS61orBS81_MO
ELSE
        TCV_sa := C_Synchronous
        use (TCV_sa, C_transparent, TSPX_BS_61_S_ur1, svc) for
OO_IFsetup_BS61orBS81_MO
```

The algorithm for selecting parameters for BS61 basice service is the same as above except using corresponding IXIT parameters.

Test Step Dynamic Behaviour

Test Step Name : BS61or81MT(srv : SERVICES; async, t_nt_ur1, t_nt_ur2, a_more_ur, sync, s_more_ur : BOOLEAN; a_ur1, a_ur2, s_ur1, s_ur2: B_4; ri : B_8; ce : B_2)

Group : Preambles/

Objective : To get a MT SETUP message with right BC IE for BS61 or BS81 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_main			
2		+local_IFsetup			
		local_main			
3		(TCV_srv := srv)			
4		(TCV_BcapMT1 := Bcap_Speech_MT)			
5		[async]			If asynchro
6		+local_bcapa			
7		(TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := a_ur1, TCV_sa := C_Asynchronous)			1st SETUP
8		+Chmod(TCV_ChRate, TCV_ce, a_ur1, srv)			2nd ch mode
9		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
10		[sync]			
11		+local_bcap2S(s_ur1)			
12		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := s_ur1, TCV_sa2 := C_Synchronous)			2nd SETUP
13		[a_more_ur]			
14		[t_nt_ur2]			
15		+local_bcap2A(a_ur2, C_transparent)			
16		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)			2nd SETUP
17		[NOT t_nt_ur2]			
18		+local_bcap2A(a_ur2, C_BothT)			
19		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)			2nd SETUP
20		[NOT a_more_ur]			
21		[t_nt_ur1]			
22		+local_bcap2A(a_ur1, C_transparent)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)			2nd SETUP
24		[NOT t_nt_ur1]			
25		+local_bcap2A(a_ur1, C_BothT)			
26		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)			2nd SETUP
27		[sync]			If synchro
28		+local_bcap2S(s_ur1)			
29		(TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := s_ur1, TCV_sa := C_Synchronous)			1st SETUP
30		+Chmod(TCV_ChRate, C_transparent, s_ur1, srv)			2nd ch mode
31		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
32		[s_more_ur]			
33		+local_bcap2S(s_ur2)			
34		(TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := s_ur1, TCV_sa2 := C_Synchronous)			2nd SETUP
35		[NOT s_more_ur]			no second BC
36	L_1071	[C_Yes]		I	
		local_bcap2A(ur : B_4; ce2: B_2)			
37		[ce2 = C_transparent]			
38		[ur = C_300bs]			
39		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V21)			
40		[ur = C_1200bs]			
41		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V22)			
42		[ur = C_2400bs]			
43		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V22bis)			
44		[ur = C_4800bs]			
45		+local_BS61or81_A_T(C_ir_8kbs, ur, C_modemt_V32)			
46		[ur = C_9600bs]			
47		+local_BS61or81_A_T(C_ir_16kbs, ur, C_modemt_V32)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
48	L_0975	[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
49		[ce2 = C_BothT]			
50		[ur = C_300bs]			
51		+local_BS61or81_A_NT(ur, C_modemt_V21, C_BothT)			
52		[ur = C_1200bs]			
53		+local_BS61or81_A_NT(ur, C_modemt_V22, C_BothT)			
54		[ur = C_2400bs]			
55		+local_BS61or81_A_NT(ur, C_modemt_V22bis, C_BothT)			
56		[ur = C_4800bs]			
57		+local_BS61or81_A_NT(ur, C_modemt_V32, C_BothT)			
58		[ur = C_9600bs]			
59		+local_BS61or81_A_NT(ur, C_modemt_V32, C_BothT)			
60	L_0976	[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
61		[ce2 = C_notransparent]			
62		[ur = C_300bs]			
63		+local_BS61or81_A_NT(ur, C_modemt_V21, C_notransparent)			
64		[ur = C_1200bs]			
65		+local_BS61or81_A_NT(ur, C_modemt_V22, C_notransparent)			
66		[ur = C_2400bs]			
67		+local_BS61or81_A_NT(ur, C_modemt_V22bis, C_notransparent)			
68		[ur = C_4800bs]			
69		+local_BS61or81_A_NT(ur, C_modemt_V32, C_notransparent)			
70		[ur = C_9600bs]			
71		+local_BS61or81_A_NT(ur, C_modemt_abt1, C_notransparent)			
72	L_0977	[(ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
73	L_0978	[ce2 = C_BothNT] local_bcap2S(ur : B_4)		I	
74		[ur = C_1200bs]			
75		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V22)			
76		[ur = C_2400bs]			
77		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V22bis)			
78		[ur = C_4800bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
79		+local_BS61or81_S_T(C_ir_8kbs, ur, C_modemt_V32)			
80		[ur = C_9600bs]			
81		+local_BS61or81_S_T(C_ir_16kbs, ur, C_modemt_V32)			
82	L_0979	[(ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
		local_BS61or81_A_T(ir : B_2; ur : B_4; modemt : B_5)			
83		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, ir, TSPX_TE_parity, C_transparent, modemt))			11.8.1.3.1
		local_BS61or81_A_NT(ur : B_4; modemt : B_5; cel : B_2)			
84		[TSPX_TE_FLCT = C_Outband]			
85		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt))			11.8.1.3.2
86		[TSPX_TE_FLCT = C_Inband]			
87		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt, C_ISO6429))			11.8.1.3.2
88		[TSPX_TE_FLCT = C_Nocontrol]			
89		(TCV_BcapMT2 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modemt, C_COPnoFLCT))			11.8.1.3.2
90	L_0981	[(TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)]		I	
		local_BS61or81_S_T(ir : B_2; ur: B_4; modemt : B_5)			
91		(TCV_BcapMT2 := Bcap_MT(C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt))			11.8.1.3.3
		local_bcapa			
92		[t_nt_ur1 OR (ce = C_notransparent)]			
93		+local_bcap2A(a_ur1, C_notransparent)			
94		(TCV_ce := C_notransparent)			
95		[NOT t_nt_ur1 AND (ce = C_transparent)]			
96		+local_bcap2A(a_ur1, C_transparent)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
97		(TCV_ce := C_transparent)			
		local_IFsetup			
98		[TCV_supported]			
99		(TCV_Null := OO_IFsetup_BS61orBS81_MT(TCV_srv, TCV_ur, TCV_sa))			
100		[NOT TCV_supported]			
101		[TCV_SpecialCase]			
102		START T_dly(C_T_Wait)			
103		?TIMEOUT T_dly			
104	L_0982	[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of BS61 Bearer Capabilities:

```
The data Bearer Capability for 1st SETUP (used for an MT call):
IF TSPX_BS_61_A
    ur= TSPX_BS_61_A_ur1
    IF TSPX_BS_61_A_ur1_T_NT OR (TSPX_BS_61_A_ur1_ce = NT)
        use coding of sec. 11.8.1.3.2 with (ur & ce=NT)
    ELSE
        use coding of sec. 11.8.1.3.1 with (ur & ce=T)
ELSE
   IF TSPX_BS_61_S
     ur= TSPX_BS_61_S_ur1 use coding of sec. 11.8.1.3.3 with (ur & ce=T)


The 2nd Bearer Capability for second SETUP ( used for TC_11_1_1):
    Note: the 2nd BC is derived IF
     (TSPX_BS_61_A OR (TSPX_BS_61_S AND TSPX_BS_61_S_more_ur))

IF TSPX_BS_61_A AND TSPX_BS_61_S
    ur= TSPX_BS_61_S_ur1 use coding of sec. 11.8.1.3.3 with (ur & ce= T)
ELSE
    IF TSPX_BS_61_A_more_ur  AND TSPX_BS_61_A
          ur= TSPX_BS_61_A_ur2
        IF TSPX_BS_61_A_ur2_T_NT
            use coding of sec. 11.8.1.3.1 with (ur & ce=T)
        ELSE
            use coding of sec. 11.8.1.3.2 with (ur & ce=both/T)
    ELSE
        IF TSPX_BS_61_S AND TSPX_BS_61_S_more_ur
            ur=TSPX_BS_61_S_ur2
            use coding of sec. 11.8.1.3.3 with (ur & ce= T)
        ELSE
            IF TSPX_BS_61_A
                ur= TSPX_BS_61_A_ ur1
               IF TSPX_BS_61_A_ur1_T_NT
                use coding of sec. 11.8.1.3.1 with (ur & ce=T)
               ELSE
                use coding of sec. 11.8.1.3.2 with (ur & ce=both/T)
```

The algorithm for derivation of BS81 Bearer Capabilities is same as above except all parameters are changed to corresponding BS81's parameters.

Test Step Dynamic Behaviour

Test Step Name : CallCfmGen(svc : SERVICES; rate : RATE)

Group : Preambles/

Objective : To generate a CALL COMFIRMED based on the service and rate, as well as on several IXIT parameters, itc, ce, ur, synchronous bit for verifying received CALL COMFIRMED message.

Default : OtherEvents

Comments : Used only for TC_11_2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_init			Default values
2		[TCV_Service = C_Telephony]			
3		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
4		(TCV_BcapMO1 := Bcap_Speech_MO(TCV_Rchr))			TS11 − Non EFR Mobile
5		+local_callcfm1			
6		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
7		(TCV_BcapMO1 := Bcap_Speech_Efr_MO(TCV_Rchr))			TS11 − EFR Mobile
8		+local_callcfm1			
9		[TCV_Service = C_AltSpchFax]			
10		[rate = C_Full]			
11		+local_TS61(C_AltSpchFax)			TS61
12	L_0983	[rate <> C_Full]		I	IXIT error
13		[TCV_Service = C_AutoFax]			
14		[rate = C_Full]			
15		+local_TS62(C_AutoFax)			TS62
16	L_0984	[rate <> C_Full]		I	IXIT error
17		[TCV_Service = C_Async300]			
18		+local_BS2x(C_Async300, C_300bs, TCV_MODEM.v_abt1, TSPX_BS_21_ce)			BS21
19		[TCV_Service = C_Async1200]			
20		+local_BS2x(C_Async1200, C_1200bs, TCV_MODEM.v_abt1, TSPX_BS_22_ce)			BS22
21		[TCV_Service = C_Async120075]			
22		+local_BS2x(C_Async120075, C_120075bs, TCV_MODEM.v_abt1, TSPX_BS_23_ce)			BS23
23		[TCV_Service = C_Async2400]			
24		+local_BS2x(C_Async2400, C_2400bs, TCV_MODEM.v_abt1, TSPX_BS_24_ce)			BS24
25		[TCV_Service = C_Async4800]			
26		+local_BS2x(C_Async4800, C_4800bs, TCV_MODEM.v_abt1, TSPX_BS_25_ce)			BS25
27		[TCV_Service = C_Async9600]			
28		+local_BS2x(C_Async9600, C_9600bs, TCV_MODEM.v_abt1, TSPX_BS_26_ce)			BS26
29		[TCV_Service = C_Sync1200]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
30		+local_BS3x(C_Sync1200, TSPX_BS_31_sacp1, C_1200bs, C_transparent, TCV_MODEM.v_abt1)			BS31
31		[TCV_Service = C_Sync2400]			
32		+local_BS3x(C_Sync2400, TSPX_BS_32_sacp1, C_2400bs, TSPX_BS_32_X32_ce, TCV_MODEM.v_abt1)			BS32
33		[TCV_Service = C_Sync4800]			
34		+local_BS3x(C_Sync4800, TSPX_BS_33_sacp1, C_4800bs, TSPX_BS_33_X32_ce, TCV_MODEM.v_abt1)			BS33
35		[TCV_Service = C_Sync9600]			
36		+local_BS3x(C_Sync9600, TSPX_BS_34_sacp1, C_9600bs, TSPX_BS_34_X32_ce, TCV_MODEM.v_abt1)			BS34
37		[TCV_Service = C_AltSpchData]			
38		+local_BS61or81(C_AltSpchData, TSPX_BS_61_A, TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur1_ce, TSPX_BS_61_S, TSPX_BS_61_S_ur1, C_RI_alternate)			BS61
39		[TCV_Service = C_SpchData]			
40		+local_BS61or81(C_SpchData, TSPX_BS_81_A, TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur1_ce, TSPX_BS_81_S, TSPX_BS_81_S_ur1, C_RI_follow)			BS81
41	L_0985	[C_Yes]		I	IXIT error
		local_init			
42		(TCV_Service := svc, TCV_Rchr := C_Rchr_Full)			
43		+LocalGenerateModemType			
44		[TSPC_DualRate]			
45		(TCV_Rchr := '1?'B)			
46		[NOT TSPC_DualRate]			
		local_BS2x(svc : SERVICES; ur : B_4; modem : B_5; ce : B_2)			
47	L_0986	[(ce <> C_transparent) AND (ce <> C_notransparent)]		I	IXIT value error
48		[C_Yes]			
49		+local_callCfm_BS2x(ce, ur, modem)			generate call comfirm ed msg
50		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(svc, C_3100Hz, C_I440_450, ce, TCV_ChRate))			ask test operator to configur e the MS

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_callCfm_BS2x(ce1: B_2; ur1 : B_4; modem1 : B_5)			
51		[ce1 = C_transparent]			
52		[ur1 = C_9600bs]			
53		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur1, C_ir_16kbs, C_parity_dontcare, C_transparent, modem1))			11.8.2.1 .1.1
54		+local_callcfm1			
55		[ur1 <> C_9600bs]			
56		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur1, C_ir_8kbs, C_parity_dontcare, C_transparent, modem1))			11.8.2.1 .1.1
57		+local_callcfm1			
58		[ce1 = C_notransparent]			
59		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur1, C_ir_16kbs, C_parity_dontcare, C_notransparent, modem1, C_uil2p_dontcare))			11.8.2.1 .1.2
60		+local_callcfm1			
		local_BS3x(svc : SERVICES; sacp : B_3; ur : B_4; ce : B_2; modem : B_5)			
61	L_0987	[((ce <> C_transparent) AND (ce <> C_notransparent)) OR ((sacp <> C_I440_450) AND (sacp <> C_X32))]		I	IXIT value error
62		[C_Yes]			
63		+local_callCfm_BS3x(ce, ur, sacp, modem)			generate call comfirm ed msg
64		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(svc, C_3100Hz, sacp, ce, TCV_ChRate))			ask operator to configur e the MS
		local_callCfm_BS3x(ce1: B_2; ur1: B_4; sacp1: B_3; modem1 :B_5)			
65		[sacp1 = C_I440_450]			
66		[ur1 = C_9600bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
67		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur1, C_ir_16kbs, C_parity_NA, C_transparent, modem1))			11.8.2.2 .1.1
68		+local_callcfm1			
69		[ur1 <> C_9600bs]			
70		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur1, C_ir_8kbs, C_parity_NA, C_transparent, modem1))			11.8.2.2 .1.1
71		+local_callcfm1			
72		[sacp1 = C_X32]			
73		[ce1 = C_transparent]			
74		[ur1 = C_9600bs]			
75		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur1, C_ir_16kbs, C_parity_NA, C_transparent, modem1))			11.8.2.2 .1.3
76		+local_callcfm1			
77		[ur1 <> C_9600bs]			
78		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur1, C_ir_8kbs, C_parity_NA, C_transparent, modem1))			11.8.2.2 .1.3
79		+local_callcfm1			
80		[ce1 = C_notransparent]			
81		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur1, C_ir_16kbs, C_parity_NA, ce1, modem1, C_X25_flct))			11.8.2.2 .1.4
82		+local_callcfm1			
		local_BS61or81(svc1 : SERVICES; async1 : BOOLEAN; ur_a1 : B_4; ce_a1 : B_2; sync1 : BOOLEAN; ur_s1 : B_4; ri3: RPI)			
83	L_0988	[(ce_a1 <> C_transparent) AND (ce_a1 <> C_notransparent) AND async1]		I	IXIT error
84	L_0989	[(ur_a1 <> C_300bs) AND (ur_a1 <> C_1200bs) AND (ur_a1 <> C_2400bs) AND (ur_a1 <> C_4800bs) AND (ur_a1 <> C_9600bs) AND (ur_a1 <> C_120075bs) AND async1]		I	IXIT error
85	L_0990	[(ur_s1 <> C_1200bs) AND (ur_s1 <> C_2400bs) AND (ur_s1 <> C_4800bs) AND (ur_s1 <> C_9600bs) AND sync1]		I	IXIT error

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
86		[C_Yes]			IXIT values OK
87		+local_callCfm_BS61or81(svc1, async1, ur_a1, ce_a1, sync1, ur_s1, ri3)			
88		(TCV_Null := OO_IFsetup_BS61orBS81_MO(svc, TCV_ur, TCV_sa, TCV_ce, TCV_ChRate))			
		local_callCfm_BS61or81(svc : SERVICES; async : BOOLEAN; ur_a : B_4; ce_a : B_2; sync : BOOLEAN; ur_s : B_4; ri : RPI)			
89		[async]			
90		[ce_a = C_transparent]			
91		(TCV_ur := ur_a, TCV_sa := C_Asynchronous, TCV_ce := C_transparent)			
92		[ur_a = C_300bs]			
93		(TCV_MODEM.v_abt1 := C_modemt_V21)			
94		+local_Bs61or81_async_T(C_300bs, TCV_MODEM.v_abt1, ri)			
95		[ur_a = C_1200bs]			
96		(TCV_MODEM.v_abt1 := C_modemt_V22)			
97		+local_Bs61or81_async_T(C_1200bs, TCV_MODEM.v_abt1, ri)			
98		[ur_a = C_120075bs]			
99		(TCV_MODEM.v_abt1 := C_modemt_V23)			
100		+local_Bs61or81_async_T(C_120075bs, TCV_MODEM.v_abt1, ri)			
101		[ur_a = C_2400bs]			
102		(TCV_MODEM := V22bisOrV26ter)			
103		+local_Bs61or81_async_T(C_2400bs, TCV_MODEM.v_abt1, ri)			
104		[ur_a = C_4800bs]			
105		(TCV_MODEM.v_abt1 := C_modemt_V32)			
106		+local_Bs61or81_async_T(C_4800bs, TCV_MODEM.v_abt1, ri)			
107		[ur_a = C_9600bs]			
108		(TCV_MODEM.v_abt1 := C_modemt_V32)			
109		+local_Bs61or81_async_T(C_9600bs, TCV_MODEM.v_abt1, ri)			
110		[ce_a = C_notransparent]			
111		(TCV_ur := ur_a, TCV_sa := C_Asynchronous, TCV_ce := C_notransparent)			
112		[ur_a = C_300bs]			
113		(TCV_MODEM := V21OrAbt1)			
114		+local_Bs61or81_async_NT(C_300bs, TCV_MODEM.v_abt1, ri)			
115		[ur_a = C_1200bs]			
116		(TCV_MODEM := V22OrAbt1)			
117		+local_Bs61or81_async_NT(C_1200bs, TCV_MODEM.v_abt1, ri)			
118		[ur_a = C_120075bs]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
119		(TCV_MODEM := V23OrAbt1)			
120		+local_Bs61or81_async_NT(C_120075bs, TCV_MODEM.v_abt1, ri)			
121		[ur_a = C_2400bs]			
122		(TCV_MODEM := V22bisOrV26terOrAbt1)			
123		+local_Bs61or81_async_NT(C_2400bs, TCV_MODEM.v_abt1, ri)			
124		[ur_a = C_4800bs]			
125		(TCV_MODEM := V32OrAbt1)			
126		+local_Bs61or81_async_NT(C_1200bs, TCV_MODEM.v_abt1, ri)			
127		[ur_a = C_9600bs]			
128		(TCV_MODEM := V32OrAbt1)			
129		+local_Bs61or81_async_NT(C_1200bs, TCV_MODEM.v_abt1, ri)			
130		[sync]			
131		(TCV_ur := ur_s, TCV_sa := C_Synchronous, TCV_ce := C_transparent)			
132		[ur_s = C_1200bs]			
133		(TCV_MODEM.v_abt1 := C_modemt_V22)			
134		+local_Bs61or81_sync_T(C_1200bs, TCV_MODEM.v_abt1, ri)			
135		[ur_s = C_2400bs]			
136		(TCV_MODEM := V22bisOrV26ter)			
137		+local_Bs61or81_sync_T(C_2400bs, TCV_MODEM.v_abt1, ri)			
138		[ur_s = C_4800bs]			
139		(TCV_MODEM.v_abt1 := C_modemt_V32)			
140		+local_Bs61or81_sync_T(C_4800bs, TCV_MODEM.v_abt1, ri)			
141		[ur_s = C_9600bs]			
142		(TCV_MODEM.v_abt1 := C_modemt_V32)			
143		+local_Bs61or81_sync_T(C_9600bs, TCV_MODEM.v_abt1, ri)			
		local_Bs61or81_async_T(usrrt : B_4; modemtp : B_5; rpi : RPI)			
144		[usrrt <> C_9600bs]			
145		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, usrrt, C_ir_8kbs, C_parity_dontcare, C_transparent, modemtp))			11.8.2.5.1
146		+local_callcfm2(rpi)			
147		[usrrt = C_9600bs]			
148		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare,usrrt, C_ir_16kbs, C_parity_dontcare, C_transparent, modemtp))			11.8.2.5.1
149		+local_callcfm2(rpi)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
		local_Bs61or81_async_NT(usrrt1 : B_4; modemtp2 : B_5; rpi : RPI)			
150		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, usrrt1, C_ir_16kbs, C_parity_dontcare, C_notransparent, modemtp2, C_uil2p_dontcare))			11.8.2.5 .2
151		+local_callcfm2(rpi)			
		local_Bs61or81_sync_T(usrrt2 : B_4; modemtp2: B_5; rpi2 : RPI)			
152		[usrrt2 <> C_9600bs]			
153		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, usrrt2, C_ir_8kbs, C_parity_NA, C_transparent, modemtp2))			11.8.2.5 .3
154		+local_callcfm2(rpi2)			
155		[usrrt2 = C_9600bs]			
156		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, usrrt2, C_ir_16kbs, C_parity_NA, C_transparent, modemtp2))			11.8.2.5 .3
157		+local_callcfm2(rpi2)			
		local_TS61(svc : SERVICES)			
158		(TCV_ur := TSPX_TS_61_ur1, TCV_ce := TSPX_TS_61_ce)			
159	L_099 1	[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT paramet er error
160	L_099 2	[(TCV_ce <> C_transparent) AND (TCV_ce <> C_notransparent)]		I	IXIT paramet er error
161		[C_Yes]			
162		+local_Bcap_TS6x			
163		+local_callcfm2(C_RI_alternate)			
164		(TCV_Null := OO_IFsetup_TS6x_MO(svc, TCV_ur, TCV_ce, TCV_ChRate))			
		local_TS62(svc : SERVICES)			
165		(TCV_ur := TSPX_TS_62_ur1, TCV_ce := TSPX_TS_62_ce)			
166	L_099 3	[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT paramet er error
167	L_099 4	[(TCV_ce <> C_transparent) AND (TCV_ce <> C_notransparent)]		I	IXIT paramet er error
168		[C_Yes]			
169		+local_Bcap_TS6x			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
170		+local_callcfm1			
171		(TCV_Null := OO_IFsetup_TS6x_MO(svc, TCV_ur, TCV_ce, TCV_ChRate))			
		local_Bcap_TS6x			
172		[TCV_ce = C_transparent]			
173		[TCV_ur = C_9600bs]			
174		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, TCV_ur, C_ir_16kbs, C_parity_NA, C_transparent, C_modemt_none))			11.8.2.7.1
175		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
176		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, TCV_ur, C_ir_8kbs, C_parity_NA, C_transparent, C_modemt_none))			11.8.2.7.1
177		[TCV_ce = C_notransparent]			
178		(TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_FAX3, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, TCV_ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flct))			11.8.2.7.2
		local_callcfm1			
179		(TCV_CallCfm := CallConfirm_04(TI_01, TCV_BcapMO1))			
		local_callcfm2(rpi : RPI)			
180		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
181		(TCV_CallCfm := CallConfirm_05(TI_01, rpi, Bcap_Speech_MO(TCV_Rchr), TCV_BcapMO1))			Non EFR Mobile
182		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
183		(TCV_CallCfm := CallConfirm_05(TI_01, rpi, Bcap_Speech_Efr_MO(TCV_Rchr), TCV_BcapMO1))			EFR Mobile
		LocalGenerateModemType			
184		[TCV_Service = C_Async300]			BS21
185		[TSPX_BS_21_ce = C_transparent]			
186		(TCV_MODEM.v_abt1 := C_modemt_V21)			
187		[(TSPX_BS_21_ce = C_notransparent)]			
188		(TCV_MODEM := V21OrAbt1)			
189		[TCV_Service = C_Async1200]			BS22
190		[TSPX_BS_22_ce = C_transparent]			
191		(TCV_MODEM.v_abt1 := C_modemt_V22)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
192		[(TSPX_BS_22_ce = C_notransparent)]			
193		(TCV_MODEM := V22OrAbt1)			
194		[TCV_Service = C_Async120075]			BS23
195		[TSPX_BS_23_ce = C_transparent]			
196		(TCV_MODEM.v_abt1 := C_modemt_V23)			
197		[TSPX_BS_23_ce = C_notransparent]			
198		(TCV_MODEM := V23OrAbt1)			
199		[TCV_Service = C_Async2400]			BS24
200		[TSPX_BS_24_ce = C_transparent]			
201		(TCV_MODEM := V22bisOrV26ter)			
202		[(TSPX_BS_24_ce = C_notransparent)]			
203		(TCV_MODEM := V22bisOrV26terOrAbt1)			
204		[TCV_Service = C_Async4800]			BS25
205		[TSPX_BS_25_ce = C_transparent]			
206		(TCV_MODEM.v_abt1 := C_modemt_V32)			
207		[(TSPX_BS_25_ce = C_notransparent)]			
208		(TCV_MODEM := V32OrAbt1)			
209		[TCV_Service = C_Async9600]			BS26
210		[TSPX_BS_26_ce = C_transparent]			
211		(TCV_MODEM.v_abt1 := C_modemt_V32)			
212		[(TSPX_BS_26_ce = C_notransparent)]			
213		(TCV_MODEM := V32OrAbt1)			
214		[TCV_Service = C_Sync1200]			BS31
215		(TCV_MODEM.v_abt1 := C_modemt_V22)			
216		[TCV_Service = C_Sync2400]			BS32
217		(TCV_MODEM := V22bisOrV26ter)			
218		[TCV_Service = C_Sync4800]			BS33
219		(TCV_MODEM.v_abt1 := C_modemt_V32)			
220		[TCV_Service = C_Sync9600]			BS34
221		(TCV_MODEM.v_abt1 := C_modemt_V32)			
222		[C_Yes]			No modem type
Detailed Comments : The implementation of this test step is based on the SMG 7 Tdoc 266/96					

Test Step Dynamic Behaviour

Test Step Name : Chmod(rate : RATE; ce : B_2; ur : B_4; svc : SERVICES)

Group : Preambles/

Objective : To assign correct values to the test case variables TCV_ChMod and TCV_ChModb.

Default : OtherEvents

Comments : The rules for assignment are in Table 10−1 of GSM 11.10 section 10.3. If the value for ce is "BothT", the rule for transparent is used. If the value for ce is "BothNT", the rule for non transparent is used. That means the preferred value will be used in test configuration.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_tree			
2		[(svc = C_AltSpchData) OR (svc = C_SpchData) OR (svc = C_AltSpchFax)]			dual mode call
3		(TCV_ChMod.mode := C_ChMod_r)			
4		[(svc<> C_AltSpchData) AND (svc <> C_SpchData) AND (svc <> C_AltSpchFax)]			
		local_tree			
5		[((ce = C_notransparent) OR (ce = C_BothNT)) AND (rate = C_Full)]			
6		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
7		[((ce = C_notransparent) OR (ce = C_BothNT)) AND (rate = C_Half)]			
8		[ur <> C_9600bs]			
9		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			
10	L_0995	[ur = C_9600bs]		I	not applicable
11		[(ce = C_transparent) OR (ce = C_BothT)]			
12		[(ur = C_9600bs) AND (rate = C_Full)]			
13		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
14		[ur = C_4800bs]			
15		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			
16		[(ur <> C_4800bs) AND (ur <> C_9600bs)]			
17		(TCV_ChMod.mode := C_ChMod_3k, TCV_ChModb.mode := C_ChMod_3k)			
18	L_0996	[(ur = C_9600bs) AND (rate = C_Half)]		I	not applicable

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Est_MO_Call(ta : TA; rate : IA5String; rand : RAND; sdcch : B_2; slot : SN; tsc : TSC; tch : B_1)

Group : Preambles/

Objective : To establish a mobile station originating call using standard procedure.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sdcch, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		+Authentication(TCV_ch, TCV_cksn, rand)			
8		+Ciphering_on(TCV_ch)			
9		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
10		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
11		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
12		+AssCmdGen(TCV_cellid, rate, slot, tsc, tch)			
13		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
14		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
15		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Est_MO_Call_init(par1: OCTETSTRING; mag, mad : MA; ta : TA; tsc1 : B_3; nfrqg, nfrqd : INTEGER)

Group : Preambles/

Objective : To initiate a mobile originating call for the supported bearer capability. The channel in use is frequency hopping channel.

Default : OtherEvents

Comments : The test case variable TCV_Mt holds the message type of the received SETUP msg.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cellid:=C_CellA)			
2		+InitCall(TCV_Service)			
3		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
4		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
5		+localtree_ia(par1)			
6		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
7		ACTIVATE(OtherEvents)			Restore Normal default
8		+ltree_continue			
		ltree_continue			
9		(TCV_Null := OM_NoL2Ack(2,TCV_ch))			Don't acknowl edge setup message
10		+Ciphering_on(TCV_ch)			
11		L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
		localtree_ia(par_chn: OCTETSTRING)			
12		[par_chn = C_CHTCHF_NonFH]			
13		(TCV_Tchtype := '00001'B)			
14		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
15		[par_chn = C_CHSDCCH4_NonFH]			
16		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))			
17		+ltree_immass_nfh(TCV_chdescr_arfcn, tsc1)			
18		[par_chn = C_CHSDCCH8_NonFH]			
19		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
20		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
21		[par_chn = C_CHTCHF_FH]			
22		(TCV_Tchtype := '00001'B)			
23		+ltree_immass_fh(nfrqg, nfrqd)			
24		[par_chn = C_CHTCHH_FH]			
25		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
26		+ltree_immass_fh(nfrqg, nfrqd)			
27		[par_chn = C_CHTCHH_NonFH]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
28		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
29		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
30		[par_chn = C_CHSDCCH8_FH]			
31		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
32		+ltree_immass_fh(nfrqg, nfrqd)			
		ltree_immass_fh(frqnog, frqnod : INTEGER)			
33		[TSPC_PGSM OR TSPC_EGSM]			
34		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnog), 6), TCV_iel := mag.iel)			1.
35		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(TSPX_HSN, 6), ta, mag, TCV_iel))		
36		[TSPC_DCS]			
37		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnod), 6), TCV_iel := mad.iel)			1.
38		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(TSPX_HSN, 6), ta, mad, TCV_iel))		
		ltree_immass_nfh(arfcn : INTEGER; tsc : B_3)			
39		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_ia_ts, tsc, ta, arfcn, C_normal_paging))		

Detailed Comments : 1. To make the MAIO is within 0 ... N−1, where N is the number of frequencies of MA. "frqnog" and
"frqnod" are number of of frequencies of MA for GSM and DCS respectively.

Test Step Dynamic Behaviour

Test Step Name : Est_MO_Call_init_HSN0(par1: OCTETSTRING; mag, mad : MA; ta : TA; tsc1 : B_3; nfrqg, nfrqd : INTEGER)

Group : Preambles/

Objective : To initiate a mobile originating call for the supported bearer capability. The channel in use is frequency hopping channel.

Default : OtherEvents

Comments : The test case variable TCV_Mt holds the message type of the received SETUP msg. The Hopping Sequence Number is forced to Zero

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_cellid:=C_CellA)			
2		+InitCall(TCV_Service)			
3		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_15)		
4		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
5		+localtree_ia(par1)			
6		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
7		ACTIVATE(OtherEvents)			Restore Normal default
8		+ltree_continue			
		ltree_continue			
9		(TCV_Null := OM_NoL2Ack(2,TCV_ch))			Don't acknowl edge setup message
10		+Ciphering_on(TCV_ch)			
11		L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)		
		localtree_ia(par_chn: OCTETSTRING)			
12		[par_chn = C_CHTCHF_NonFH]			
13		(TCV_Tchtype := '00001'B)			
14		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
15		[par_chn = C_CHSDCCH4_NonFH]			
16		(TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))			
17		+ltree_immass_nfh(TCV_chdescr_arfcn, tsc1)			
18		[par_chn = C_CHSDCCH8_NonFH]			
19		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
20		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
21		[par_chn = C_CHTCHF_FH]			
22		(TCV_Tchtype := '00001'B)			
23		+ltree_immass_fh(nfrqg, nfrqd)			
24		[par_chn = C_CHTCHH_FH]			
25		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
26		+ltree_immass_fh(nfrqg, nfrqd)			
27		[par_chn = C_CHTCHH_NonFH]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
28		(TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))			
29		+ltree_immass_nfh(TCV_tch_arfcn, tsc1)			
30		[par_chn = C_CHSDCCH8_FH]			
31		(TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))			
32		+ltree_immass_fh(nfrqg, nfrqd)			
		ltree_immass_fh(frqnog, frqnod : INTEGER)			
33		[TSPC_PGSM OR TSPC_EGSM]			
34		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnog), 6), TCV_iel := mag.iel)			1.
35		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(C_HSN_0, 6), ta, mag, TCV_iel))		
36		[TSPC_DCS]			
37		(TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnod), 6), TCV_iel := mad.iel)			1.
38		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(C_HSN_0, 6), ta, mad, TCV_iel))		
		ltree_immass_nfh(arfcn : INTEGER; tsc : B_3)			
39		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_ia_ts, tsc, ta, arfcn, C_normal_paging))		
Detailed Comments : 1. To make the MAIO is within 0 ... N−1, where N is the number of frequencies of MA. "frqnog" and "frqnod" are number of of frequencies of MA for GSM and DCS respectively.					

Test Step Dynamic Behaviour

Test Step Name : Est_MT_Call_FH(ta : TA; rate : IA5String; maio : MAIO; hsn : INTEGER; rand : RAND; slot : SN; tsc : TSC; tch : B_1)

Group : Preambles/

Objective : To establish a mobile station terminating call with hopping channel (speech or data call).

Default : OtherEvents

Comments : used var's:
TCV_cellid, TCV_ch

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+RRmtcallprepare(ta, rand)			
2		+CC_Est_MT_Call			
3		+localtree			
4		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
5		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
		localtree			
6		[rate = C_Full]			Full rate
7		[TCV_cellid = C_CellA]			
8		+AssCmdGen_fh(C_Full, slot, tsc, tch, 9, 15, maio, INT_TO_BIT(hsn, 6), Frql_20_A, Frql_20_Ad, CellChDes_Omit, CellChDes_Omit, ChMod_omit, MoblAllc_omit, MoblAllc_omit, CphMod_omit)			
9		[TCV_cellid = C_CellB]			
10		+AssCmdGen_fh(C_Full, slot, tsc, tch, 9, 15, maio, INT_TO_BIT(hsn, 6), Frql_20_B1, Frql_20_B8d, CellChDes_Omit, CellChDes_Omit, ChMod_omit, MoblAllc_omit, MoblAllc_omit, CphMod_omit)			
11		[rate = C_Half]			Half rate
12		[TCV_cellid = C_CellA]			
13		+AssCmdGen_fh(C_Half, slot, tsc, tch, 9, 15, maio, INT_TO_BIT(hsn, 6), Frql_20_A, Frql_20_Ad, CellChDes_Omit, CellChDes_Omit, ChMod_omit, MoblAllc_omit, MoblAllc_omit, CphMod_omit)			
14		[TCV_cellid = C_CellB]			
15		+AssCmdGen_fh(C_Half, slot, tsc, tch, 9, 15, maio, INT_TO_BIT(hsn, 6), Frql_20_B3, Frql_20_B3d, CellChDes_Omit, CellChDes_Omit, ChMod_omit, MoblAllc_omit, MoblAllc_omit, CphMod_omit)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Est_MT_CallNonFH(ta : TA; rate : IA5String; sub : B_1; rand : RAND)

Group : Preambles/

Objective : To establish a mobile station terminating call with non hopping channel (speech or data call).

Default : OtherEvents

Comments : used var's:
TCV_cellid, TCV_chdescr_arfcn, TCV_Bcap1, TCV_chTch, TCV_asscmd_ts

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+RRmtcallprepare(ta, rand)			
2		+CC_EstMsTermCall(rate, sub)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : IdleUpdated(par_bspwr : INTEGER; activ_cell : CellID; sch, bcch : LOGICCH; acttype : BITSTRING; slot, slot2, slot3, slot4 : SN; tsc : TSC; t, retr, neci, att : INTEGER; ta : TA; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; cchdgsm, cchddcs : CCHD; crh, mtmcgsm, mtmcdcs : INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; StartType : INTEGER; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; imsi : HEXSTRING; sysinfonb : INTEGER; nccp : NCCP)

Group : Preambles/

Objective : To ensure that the SIM is either updated to the initial conditions and the MS with CKSN valid, TMSI valid and idle updated in cell A, B or C; or idle updated without TMSI; or totally not updated and all LAI information deleted.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_slot := slot, TCV_tsc := tsc, TCV_Ccd0H := CntrlChDscrp(att, babr, C_cch_1Comb, bpm, t3212))			
2		+MM_PwrOrSimOff (C_SIMneedRmv)			
3		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
4		+ltree_chconf(C_cch_1Comb)			Config LT
5		+localtree1			
		localtree1			
6		+ltree_sysinfo(1, C_cch_1Comb)			ATT= ’1’B
7		+MM_PwrOrSimOn (C_SIMneedRmv)			
8		+localtree_Lup_Auth			
		localtree_Lup_Auth			
9		START T_dly(C_T_Wait1stChReq)			
10		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
11		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
12		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
13		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
14		ACTIVATE(OtherEvents)			Restore Normal default
15		[StartType = C_Start_Rej]			
16		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_LAnotallowed))		Delete LAI, tmsi, cksn
17		+PostMainLinkRel(TCV_ch)			Release Ch

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+MM_PwrOrSimOff (C_SIMneedRmv)			
19		+localtree2			
20		[StartType = C_Start_Imsi]			
21		+Authentication(TCV_ch, cksn, rand)			
22		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiImsi_01iei, mcc, mnc, TCV_lac))		Location Accept with IMSI
23		+PostMainLinkRel(TCV_ch)			Release Ch
24		+localtree2			
25		[(StartType = C_Start_Tmsi) OR (StartType = C_Start_TmsiOff)]			
26		+Authentication(TCV_ch, cksn, rand)			
27		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_01iei, mcc, mnc, TCV_lac))		Location Accept with TMSI
28		L?DL_DatInTmsireCom	TmsiReallocCmp(TCV_ch)		
29		+PostMainLinkRel(TCV_ch)			Release Ch
30		+localtree2			
31		[StartType = C_Start_PLMNnot]			
32		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn
33		+PostMainLinkRel(TCV_ch)			Release Ch
34		+localtree2			
35	L_0997	[(StartType <> C_Start_Rej) AND (StartType <> C_Start_Tmsi) AND (StartType <> C_Start_TmsiOff) AND (StartType <> C_Start_Imsi) AND (StartType <> C_Start_PLMNnot)]		I	
36		?TIMEOUT T_dly			
37		+ltree_rmvPLMNfbdnlist			
		localtree2			
38		[(att = 1) AND (StartType <> C_Start_TmsiOff)]			ATT no change
39		[cch_con <> C_cch_1Comb]			If non combined
40		+localtree3			
41		+ltree_PgReorg			
42		[cch_con = C_cch_1Comb]			If combined
43		[(att = 1) AND (StartType = C_Start_TmsiOff)]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
44		+ImsiDetach (MiTmsi_01, ta, C_SIMneedRmv)			Switch off, detach
45		[cch_con <> C_cch_1Comb]			If non combined
46		+localtree3			
47		[cch_con = C_cch_1Comb]			If combined
48		[att = 0]			
49		[cch_con = C_cch_1Comb]			If combined
50		+ltree_sysinfo(0, C_cch_1Comb)			ATT=0
51		+ltree_PgReorg			
52		[cch_con <> C_cch_1Comb]			If non combined
53		+localtree3			
54		+ltree_PgReorg			
		localtree3			
55		(TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212))			
56		+Varinit_fix(activ_cell, lac, subch, cksn, rand, arfcngsm, arfcndcs, TCV_Ccd0H, imsi)			
57		+ltree_chconf (cch_con)			Config LT
58		+ltree_sysinfo(att, cch_con)			
		ltree_PgReorg			
59		(TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Reorg))			
60		START T_dly(5000)			
61		?TIMEOUT T_dly			
62		(TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Norm))			
		ltree_sysinfo(attach : INTEGER; con_ch : B_3)			
63		[activ_cell = C_CellA]			
64		+SysInfoSending(attach, con_ch)			SI1−4, cellA
65		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
66		[con_ch = C_cch_1Comb]			If combined
67		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			SI5, 6 on SACCH/ C4, cell A
68		[con_ch <> C_cch_1Comb]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
69		+ltree_sysinfo_other(attach)			More SIs, cellA
70		[activ_cell = C_CellB]			
71		+SysInfoSending(attach, con_ch)			SI1−4, cellB
72		(TCV_Ccd0B := TCV_Ccd0H, TCV_sacch_B := TCV_sacch, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			SI5, 6 on SACCH/ C4, cell B
73		[con_ch = C_cch_1Comb]			If combine d
74		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			SI5, 6 on SACCH/ C4, cell A
75		[con_ch <> C_cch_1Comb]			No more SIs, cell B
76		[activ_cell = C_CellC]			
77		+SysInfoSending(attach, con_ch)			SI1−4, cellC
78		(TCV_Ccd0C := TCV_Ccd0H, TCV_sacch_C := TCV_sacch, TCV_sysinfo5_C := TCV_sysinf5, TCV_sysinfo6_C := TCV_sysinf6)			
79		[con_ch = C_cch_1Comb]			If combine d
80		+SysInfo_SacchSending(TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C)			SI5, 6 on SACCH/ C4, cell C
81		[con_ch <> C_cch_1Comb]			No more SIs, cell C
		SysInfoSending(attachb : INTEGER; con_chs : B_3)			
82		[sysinfonb = C_Test_fh]			Hopping
83		+SysInfoSending_fh(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgsm, cchddcs, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp)			
84		[sysinfonb = C_Test_nfh]			Non hopping
85		+SysInfoSending_nfh(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs, Re, bcc, ncc, nccp)			
86		[sysinfonb = C_Test_egsm]			EGSM

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
87		+SysInfoSending_e(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, cchdgsm, crh, mtmcgsm, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp)			
88		[sysinfonb = C_Test_cbms]			CBMS
89		+SysInfoSending_cbms(sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, crh, mtmcgsm, mtmcdcs, bcchflgsm, bcchfldcs, Re, bcc, ncc, nccp, subch)			
		ltree_chconf(conf : B_3)			
90		[activ_cell = C_CellA]			
91		+ltree_chconf_A(conf)			Config LT
92		[activ_cell = C_CellB]			
93		+ltree_chconf_B(conf)			Config LT
94		[activ_cell = C_CellC]			
95		+ltree_chconf_C(conf)			Config LT
		ltree_chconf_A(conf_a : B_3)			
96		[conf_a = C_cch_1nonComb]			
97		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 non combined CCCH, cell A
98		(TCV_Upd := C_NotCombined)			
99		[conf_a = C_cch_1Comb]			
100		[sysinfonb <> C_Test_cbms]			
101		+CombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combined CCCH, cell A
102		(TCV_Upd := C_Combined)			
103		[sysinfonb = C_Test_cbms]			
104		+CombinedBCCH_A_CBMS(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combined CCCH + CBMS, cell A
105		(TCV_Upd := C_Combined)			
106		[conf_a = C_cch_2nonComb]			2 CCCHs
107		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combined CCCH, cell A

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
108		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combined CCCH, cell A
109		(TCV_Upd := C_NotCombined)			
110		[conf_a = C_cch_3nonComb]			
111		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combined CCCH, cell A
112		+NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combined CCCH, cell A
113		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combined CCCH, cell A
114		(TCV_Upd := C_NotCombined)			
115		[conf_a = C_cch_4nonComb]			
116		+NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combined CCCH, cell A
117		+NonCombinedBCCH_A_2(acttype ,slot2, tsc, ta, babr, conf_a, bpm)			2nd non combined CCCH, cell A
118		+NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combined CCCH, cell A
119		+NonCombinedBCCH_A_4(acttype, slot4, tsc, ta, babr, conf_a, bpm)			4th non combined CCCH, cell A
120		(TCV_Upd := C_NotCombined)			
121	L_0998	[(conf_a <> C_cch_1nonComb) AND (conf_a <> C_cch_2nonComb) AND (conf_a <> C_cch_3nonComb) AND (conf_a <> C_cch_4nonComb) AND (conf_a <> C_cch_1Comb)] ltree_chconf_B(conf_b : B_3)		I	A wrong CCCH−CONF value, cell A
122		[conf_b = C_cch_1nonComb]			
123		+NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype,slot,tsc, ta, babr, conf_b, bpm)			1 non combined CCCH, cell B

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
124		(TCV_Upd := C_NotCombined)			
125		[conf_b = C_cch_1Comb]			
126		+CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)			1 combined CCCH, cell B
127		(TCV_Upd := C_Combined)			
128	L_0999	[(conf_b <> C_cch_1nonComb) AND (conf_b <> C_cch_1Comb)]		I	A wrong CCCH−CONF value,cell B
		ltree_chconf_C(conf_c : B_3)			
129		[conf_c = C_cch_1Comb]			
130		+CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_c, bpm)			1 combined CCCH, cell C
131		(TCV_Upd := C_Combined)			
132	L_1000	[conf_c <> C_cch_1Comb]		I	
		ltree_sysinfo_other(attach : INTEGER)			
133		[(cch_con = C_cch_1nonComb) OR (cch_con = C_cch_1Comb)]			
134		[cch_con = C_cch_2nonComb]			
135		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH
136		[cch_con = C_cch_3nonComb]			
137		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH
138		+SysInfoSending_fh(sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 3rd CCCH
139		[cch_con = C_cch_4nonComb]			
140		+SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 2nd CCCH

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
141		+SysInfoSending_fh(sch, C_BCCH_A_3, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 3rd CCCH
142		+SysInfoSending_fh(sch, C_BCCH_A_4, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp)			SIs on 4th CCCH
		ltree_rmvPLMNfbdnlist			
143		(TCV_Null := OO_PLMNselModeMan())			
144		(TCV_Null := OO_SelPLMN(mnc))			
145		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq(ChRequest_02)		Any channel request PDU
146		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
147		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
148		L?DL_EstInLupRq	LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))		Any location update type
149		ACTIVATE(OtherEvents)			Restore Normal default
150		[StartType = C_Start_PLMNnot]			The PLMN is already in forbidden list on short SIM
151		L!DL_DatRqLupRej	LocRej(TCV_ch, LocUpdtRej_01(C_rc_plmn_not))		Delete LAI, tmsi, cksn, PLMN still in list
152		+PostMainLinkRel(TCV_ch)			Release Ch
153		(TCV_Null := OO_PLMNselModeAuto())			
154		[StartType <> C_Start_PLMNnot]			

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Test Step Dynamic Behaviour

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
155		L!DL_DatRqLupAcp	LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_r02iei, mcc, mnc, TCV_lac))		Location Accept with no TMSI
156		+PostMainLinkRel(TCV_ch)			Release Ch
157	L_1001	(TCV_Null := OO_PLMNselModeAuto())		I	No ChReq received: Inconclusive

Detailed Comments : Formal Parameter Type Comments & Explanations Possible values

par_bspwr INTEGER Base station power level C_E_default, C_E_suitable

activ_cell CellID Activated cell identity C_CellA, C_CellB, C_CellC

sch LOGICCH Sync. channel identity
If formal para activ_cell = C_CellA, C_SCH_A
If formal para activ_cell = C_CellB, C_SCH_B
If formal para activ_cell = C_CellC, C_SCH_C

bcch LOGICCH 1st broadcast channel id
If formal para activ_cell = C_CellA, C_BCCH_A_1
If formal para activ_cell = C_CellB, C_BCCH_B_1
If formal para activ_cell = C_CellC, C_BCCH_C_1

acttype BITSTRING Type for activation of a channel C_Immass

slot SN Slot number for the 1st slot C_S0

slot2 SN Slot number for the 2nd slot
In case of 2 or 3 or 4 non combined CCCH C_S2
Otherwise (1 combined or 1 non combined) C_SlotNU

slot3 SN Slot number for the 3rd slot
In case of 3 or 4 non combined CCCH C_S4
Otherwise (1 combined or 1, 2 non combined) C_SlotNU

slot4 SN Slot number for the 4th slot
In case of 4 non combined CCCH channels C_S6
Otherwise (1 combined,1, 2, 3 non combined) C_SlotNU

tsc TSC Training Sequence code C_BCC

t INTEGER Rach Control Parameter field, Tx−Integer
for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_TxInt_5,
C_TxInt_7, C_TxInt_10

retr INTEGER Rach Control Parameter field, Max−Retrans
for SysInfo1, SysInfo2, SysInfo3, SysInfo4 C_Max_1,
C_Max_2, C_Max_7

neci INTEGER Requested value f. NECI bit in test case C_NECI_0,
C_NECI_1

att INTEGER Requested value f. ATTACH bit in test case C_ATT_0,
C_ATT_1

ta TA Requested Timing Advance value

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Test Step Dynamic Behaviour

Detailed Comments : ...

babr B_3 Number of blocks reserved for acces grant
If arbitrary TSPX_AGBLKSx
If fixed C_BABR_0, C_BABR_1, C_BABR_2

cch_con B_3 Type of CCCH channel.
If arbitrary TSPX_CcchConfx
1 conbined CCCH channel C_cch_1Comb
1 non conbined CCCH channel C_cch_1nonComb
2 non conbined CCCH channels C_cch_2nonComb
3 non conbined CCCH channels C_cch_3nonComb
4 non conbined CCCH channels C_cch_4nonComb

bpm B_3 Number of multiframes for transmission
of PAGING REQUEST messages to the same
paging subgroup
If arbitrary TSPX_PAMFRMSx
If fixed (2, 4, 5, 9 multiframes) C_BPM_0, C_BPM_2,
C_BPM_3, C_BPM_7

t3212 OCTETSTR. Requested value for T3212 in test case (Periodic Location Update Value)
infinite C_T3212_0
6 mn / 1 deci hours C_T3212_1
12 mn / 2 deci hours C_T3212_2
30 mn / 5 deci hours C_T3212_5

ci CI Cell Identity
If formal para activ_cell = C_CellA C_ci_CellA
If formal para activ_cell = C_CellB C_ci_CellB
If formal para activ_cell = C_CellC C_ci_CellC

mcc OCTETSTR. Mobile Contry Code for the LAI C_MCC, C_MCC_x

mnc OCTETSTR. Mobile Network Code for the LAI C_PLMN_Home, C_PLMN_x

lac OCTETSTR. Local Area Code for the LAI C_LAC_x

co CO Cell Options CellOpt_xx

cchdgsm CCHD Cell Channels Description (GSM)
If formal para sysinfonb=C_Test_nfh CellChDes_omit
If formal para sysinfonb=C_Test_cbms CellChDes_omit
If formal para sysinfonb=C_Test_fh GSM CellChDes_xx

cchddcs CCHD Cell Channels Description (DCS)
If formal para sysinfonb=C_Test_nfh CellChDes_omit
If formal para sysinfonb=C_Test_cbms CellChDes_omit
If formal para sysinfonb=C_Test_fh DCS CellChDes_xx

crh INTEGER Cell Reselection Hysteresis C_CellReselectHys12,
C_CellReselectHys4

mtmcgsm INTEGER Requested maximum power level
for GSM MS C_MaxPwrLvlG

mtmcdcs INTEGER Requested maximum power level
for DCS MS C_MaxPwrLvlD

bcchflgsm NCD Neighbour Cells Description for GSM BcchFreqLst_xx

bcflaltgsm NCD Alternative Neighbour Cells Description for GSM.

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Test Step Dynamic Behaviour

Detailed Comments : ...

If sysinfonb = C_Test_nfh Alternat.GSM BcchFreqLst_xx
Otherwise: BcchFreqLst_Omit

bcchfldcs NCD Neighbour Cells Description for DCS BcchFreqLst_xx

bcflaltdcs NCD Alternative Neighbour Cells Description for DCS
If sysinfonb = C_Test_nfh Alternat.DCS BcchFreqLst_xx
Otherwise: BcchFreqLst_Omit

Re B_1 Rach Control Parameter field,
Re−establishment bit for SysInfo1,
SysInfo2, SysInfo3, SysInfo4 C_Restablishment,
C_noRestablishmen
bcc BCC Base station Color Code C_BCC

ncc NCC Network Color Code C_NCC

StartType INTEGER Initial conditions for MS
Starting without TMSI C_Start_Imsi
Starting with Tmsi_01 C_Start_Tmsi
Starting with Tmsi_01, MS deactivated C_Start_TmsiOff
Starting with LAI deleted, MS deactivated C_Start_Rej
Starting with PLMN not allowed C_Start_PLMNnot

subch BITSTRING Selected sub−channel
If Formal para cch_con = C_cch_1Comb, TSPX_SDCCH4SubDef
TSPX_SDCCH4SubA, SubB, SubC
cksn BITSTRING Ciphering Key Sequence Number used for
authentication TSPX_CKSNDef, TSPX_CKSNA, B, C

rand BITSTRING Random Number for authentication TSPX_RANDDef,
TSPX_RANDA, B , C

arfcngsm INTEGER BCCH channel ARFCN (GSM)
If sysinfonb = C_Test_fh C_Noarfcn
Otherwise: If activ_cell = C_CellA
C_arfcnA_x If activ_cell = C_CellB C_arfcnB_x If
activ_cell = C_CellC C_arfcnC_x

arfcndcs INTEGER BCCH channel ARFCN (DCS)
If sysinfonb = C_Test_fh C_Noarfcn
Otherwise: If activ_cell = C_CellA
C_arfcnAd_x If activ_cell = C_CellB C_arfcnBd_x If
activ_cell = C_CellC C_arfcnCd_x

imsi HEXSTRING The expected IMSI TSPX_IMSI
In TC_26_7_3_2 C_shortIMSI

sysinfonb INTEGER Type of sysinfo sending
Frequency Hopping C_Test_fh
Non Frequency hopping C_Test_nfh
EGSM sequence C_Test_egsm
CBMS sequence C_Test_cbms

nccp NCCP Network Country Code Permitted
in SysInfo2 C_NCCP_2, C_NCCP_5

Test Step Dynamic Behaviour

Test Step Name : PreEnterIdleState_r02(acttype : BITSTRING; slot : SN; tsc : TSC; tx, retrans : INTEGER; slot2 : SN; slot3 : SN; slot4 : SN; ta : TA ; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING)

Group : Preambles/

Objective : To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 containing default parameters in cell A with the following exceptions :
- legal combination of CCCH−CONF, BS−AG−BLKS−RES, BS−PA−MFRMS are specified by parameters
- max retransmission and tx−integer can be assigned,

The test system is then waiting for the SUT (MS) entering the Idle updated state.

Default : OtherEvents

Comments : The preamble is used for the RR tests.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[cch_con = C_cch_1Comb]			
2		+CombinedBCCH_A(63, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype, slot, tsc, ta, babr, cch_con, bpm)			
3		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
4		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
5		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
6		[cch_con = C_cch_1nonComb]			
7		+localtree			
8		[cch_con = C_cch_2nonComb]			
9		+NonCombinedBCCH_A_2(acttype,slot2,tsc, ta, babr, cch_con, bpm)			
10		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_2, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
11		+localtree			
12		[cch_con = C_cch_3nonComb]			
13		+NonCombinedBCCH_A_2(acttype,slot2,tsc, ta, babr, cch_con, bpm)			
14		+NonCombinedBCCH_A_3(acttype,slot3,tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_2, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
16		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_3, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
17		+localtree			
18		[cch_con = C_cch_4nonComb]			
19		+NonCombinedBCCH_A_2(acttype,slot2,tsc, ta, babr, cch_con, bpm)			
20		+NonCombinedBCCH_A_3(acttype,slot3,tsc, ta, babr, cch_con, bpm)			
21		+NonCombinedBCCH_A_4(acttype,slot4,tsc, ta, babr, cch_con, bpm)			
22		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_2, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
23		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_3, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
24		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_4, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
25		+localtree			
26	L_1002	[(cch_con = C_cch_2Comb) OR (cch_con = C_cch_3Comb) OR (cch_con = C_cch_4Comb)] localtree		I	Reserved

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		+NonCombinedBCCH_A(63, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype,slot,tsc, ta, babr, cch_con, bpm)			
28		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, tx, retrans, 0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
29		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
Detailed Comments :					

Test Step Dynamic Behaviour					
Test Step Name	:	PreEnterCCstateU01_21(sub : B_2; ta : TA)			
Group	:	Preambles/			
Objective	:	To bring the MS into CC state U0.1 by procedure in table 26.8.1.2/1. This is used in CC testing.			
Default	:	OtherEvents			
Comments	:				
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+CCEstablishMO_SDCCH4(sub, ta)			1.
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default tree
Detailed Comments : 1. To assign SDCCH4 channel.					

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU1_21(sub : B_2; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U1 by procedure in table 26.8.1.2/1. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU01_21(sub, ta)			
2		+Ciphering_on(TCV_ch)			
3		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
4		+CCstatuschk_02(TCV_ch, C_U1, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU1_22(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U1 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMO_TCH(slot, tsc, ta)			1.
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq (TCV_Fn :=DL_EstInCmsRq.fn)	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default
5		+CCModifyTCH(slot, tsc)			
6		+Ciphering_on(TCV_chTch)			
7		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
8		+CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)			2.

Detailed Comments : 1. To assign TCH/F channel or TCH/H channel.
2. Check that CC is now state U1

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU1_22Timer(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U1 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMO_TCH(slot, tsc, ta)			1.
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq (TCV_Fn :=DL_EstInCmsRq.fn) START T_dly(45000)	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default
5		+CCModifyTCH(slot, tsc)			
6		+Ciphering_on(TCV_chTch)			
7		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
8		+CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)			2.

Detailed Comments : 1. To assign TCH/F channel or TCH/H channel.
2. Check that CC is now state U1

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU1_24(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U1 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI contains the transcation identifier from the MS, and TCV_TI0 contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMO_TCH(slot, tsc, ta)			1.
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default
5		L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_01('0001'B))		IMSI.
6		L?DL_DatInIdRes	IDRes(IDResponse_30(MiImsi_01))		
7		+Ciphering_on(TCV_chTch)			
8		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
9		+CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To assign TCH/F channel or TCH/H channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU1(ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To establish a mobile originating call and put the MS under test in the CC state U1.

Default : OtherEvents

Comments : test case variable TCV_TI0 holds the transaction IDused by the MS, and TCV_TI used by test system. The calling tree shall prepare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			1.
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_04)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		+Authentication(TCV_ch, cksn, rand)			
8		+Ciphering_on(TCV_ch)			
9		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			2.
10		+CCstatuschk_02(TCV_ch, C_U1, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To attempt a outgoing call at the MS.
2. In the state U1 now.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU3(ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To establish a mobile originating call and put the MS under test in the CC state U3.

Default : OtherEvents

Comments : test case variable TCV_TI0 holds the transaction ID used by the MS, and TCV_TI is used by test system. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key. The call setup is generic setup procedure.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU1(ta, cksn, rand)			1.
2		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		2.
3		+CCstatuschk_02(TCV_ch, C_U3, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To initiate a mobile originating call at the MS.
2. Now in the state U3.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU3_21(sub : B_2; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U3 by procedure in table 26.8.1.2/1. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU1_21(sub, ta)			
2		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
3		+CCstatuschk_02(TCV_ch, C_U3, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To assign SDCCH4 channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU3_22(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U3 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU1_22(slot, tsc, ta)			
2		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
3		+CCstatuschk_02(TCV_chTch, C_U3, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU3_23(sub : B_2; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U3 by procedure in table 26.8.1.2/3. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. Their values are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMO_SDCCH4(sub, ta)			
2		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
3		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default tree
5		+Ciphering_on(TCV_ch)			
6		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
7		+Authentication(TCV_ch, cksn, rand)			
8		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
9		+CCstatuschk_02(TCV_ch, C_U3, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU3_24(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U3 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU1_24(slot, tsc, ta)			
2		+CCModifyTCH(slot, tsc)			
3		L!DL_DatRqCallProc	CallProc(TCV_chTch, TCV_CallProc)		
4		+CCstatuschk_02(TCV_chTch, C_U3, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU4_21(sub : B_2; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U4 by procedure in table 26.8.1.2/1. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI contains the transcation identifier from the MS, and TCV_TI0 contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU3_21(sub, ta)			
2		L!DL_DatRqAlert	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
3		+CCstatuschk_02(TCV_ch, C_U4, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU4_22(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U4 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU3_22(slot, tsc, ta)			
2		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
3		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU4_23(sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U4 by procedure in table 26.8.1.2/3. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU3_23(sub, ta, cksn, rand)			
2		+CCAssignTCH(slot, tsc)			
3		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
4		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU4_24(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U4 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU3_24(slot, tsc, ta)			
2		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
3		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU6_32(ta : TA; sub : B_2; cksn : B_3)

Group : Preambles/

Objective : To bring the MS into CC state U6 by procedure in table 26.8.1.3/2. This is used in CC testing.

Default : OtherEvents

Comments : State U6 is a transient state.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Setup_mt.sig :=Signal_01)			
2		+CCEstablishMT_SDCCH4(ta, sub, cksn)			1.
3		+Ciphering_on(TCV_ch)			
4		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		

Detailed Comments : 1. To assign SDCCH4 channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU7_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U7 by procedure in table 26.8.1.3/1. This is used in CC testing.

Default : OtherEvents

Comments : used only for the MS not support immediate connection. State U7 is transiet state if the MS supports automatic connect after a specific time. The calling tree shall prepare two variables for the step: TCV_ch for SDCCH4 subchannel, TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_31(ta, sub, cksn, rand)			
2		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
3		+CCstatuschk_02(TCV_ch, C_U7, TI_02, TI_01)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU7_32(ta : TA; sub : B_2; cksn : B_3)

Group : Preambles/

Objective : To bring the MS into CC state U7 by procedure in table 26.8.1.3/2. This is used in CC testing.

Default : OtherEvents

Comments : used only for the MS not support immediate connection. State U7 is transiet state if the MS supports automatic connect after a specific time. The calling tree shall prepare two variables for the step: TCV_ch for SDCCH4 subchannel, TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_32(ta, sub, cksn)			
2		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
3		+CCstatuschk_02(TCV_ch, C_U7, TI_02, TI_01)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU7_33(slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U7 by procedure in table 26.8.1.3/3. This is used in CC testing.

Default : OtherEvents

Comments : used only for the MS not support immediate connection. State U7 is transiet state if the MS supports automatic connect after a specific time. The calling tree shall prepare two variables for the step: TCV_chTch for traffic channel, TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_33(slot, tsc, ta, cksn, rand)			
2		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
3		+CCstatuschk_02(TCV_chTch, C_U7, TI_02, TI_01)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU8_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U8 by procedure in table 26.8.1.3/1. This is used in CC testing.

Default : OtherEvents

Comments : The calling tree shall prepare two variables for the step: TCV_ch for SDCCH4 subchannel, TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_31(ta, sub, cksn, rand)			
2		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
3		(TCV_Null := OO_HookOff())			1.
4		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
5		+CCstatuschk_02(TCV_ch, C_U8, TI_02, TI_01)			2.
6		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
7		+CCstatuschk_02(TCV_ch, C_U8, TI_02, TI_01)			2.

Detailed Comments : 1. To accept the call by operator.
2. To check whether the MS is in the expected initial state U8.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU8_32(slot : SN; tsc : TSC; ta : TA; sub : B_2; cksn : B_3)

Group : Preambles/

Objective : To bring the MS into CC state U8 by procedure in table 26.8.1.3/2. This is used in CC testing.

Default : OtherEvents

Comments : The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key, TCV_AssCmd for ASSIGNMENT message.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_32(ta, sub, cksn)			
2		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
3		+CCAssignTCH(slot, tsc)			
4		+CCstatuschk_02(TCV_chTch, C_U8, TI_02, TI_01)			2.
5		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
6		(TCV_Null := OO_HookOff())			1.
7		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
8		+CCAssignTCH(slot, tsc)			
9		+CCstatuschk_02(TCV_chTch, C_U8, TI_02, TI_01)			2.

Detailed Comments : 1. To accept the call by operator.
2. To verify whether the MS is in the expected initial state U8.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU8_33(slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U8 by procedure in table 26.8.1.3/3. This is used in CC testing.

Default : OtherEvents

Comments : The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU9_33(slot, tsc, ta, cksn, rand)			
2		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
3		(TCV_Null := OO_HookOff())			
4		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
5		+CCstatuschk_02(TCV_chTch, C_U8, TI_02, TI_01)			3.
6		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
7		+CCstatuschk_02(TCV_chTch, C_U8, TI_02, TI_01)			3.

Detailed Comments : 1. Immediate connection is not supported.
2. Immediate connection is supported.
3. To verify whether the MS is in the expected initial state U8.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU8_34_SS

Group : Preambles/

Objective : To establish an MT call entering U8 with early assignment for SS test subgroup.

Default : OtherEventsFail

Comments : Used var's: TCV_cellid, TCV_chdescr_arfcn, TCV_Bcap1, TCV_chTch, TCV_asscmd_ts

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))			
2		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
3		+AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
4		L?DL_DatInCallCo(TCV_CallCfm:=DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
5		[NOT TSPX_Immconn]			
6		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
7		L?DL_DatInAlert	AlertRcv(AlertingInd_01(TI_01))		
8		(TCV_Null:=OO_HookOff())			
9		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
10		[TSPX_Immconn]			
11		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
12		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU9_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U9 by procedure in table 26.8.1.3/1. This is used in CC testing.

Default : OtherEvents

Comments : The state U9 is a transient state when the signal IE is included in the SETUP message. The calling tree shall prepare three variables for the test step: TCV_ChRate for the type of the channel, TCV_CphKey for the ciphering key and TCV_ChMod for the channel mode.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Setup_mt.sig := Signal_01)			
2		+CCEstablishMT_SDCCH4(ta, sub, cksn)			1.
3		+Authentication(TCV_ch, cksn, rand)			2.
4		+Ciphering_on(TCV_ch)			3.
5		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
6		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		

Detailed Comments : 1. To establish a MT SDCCH/4.
2. To initiate authentication procedure.
3. To start ciphering on the traffic channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU9_32(ta : TA; sub : B_2; cksn : B_3)

Group : Preambles/

Objective : To bring the MS into CC state U9 by procedure in table 26.8.1.3/2. This is used in CC testing.

Default : OtherEvents

Comments : The state U9 in the test step is a transient state. The calling tree shall prepare two variables for the test step TCV_ch of SDCCH4 subchannel, TCV_CphKey.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU6_32(ta, sub, cksn)			
2		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU9_33(slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U9 by procedure in table 26.8.1.3/3. This is used in CC testing.

Default : OtherEvents

Comments : The state U9 is a transient state when the signal IE is included in the SETUP message. The calling tree shall prepare three variables for the test step: TCV_ChRate for the type of the channel, TCV_CphKey for the ciphering key and TCV_ChMod for the channel mode.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Setup_mt.sig := Signal_01)			
2		+CCEstablishMT_TCH(slot, tsc, ta)			1.
3		+Authentication(TCV_chTch, cksn, rand)			2.
4		+Ciphering_on(TCV_chTch)			3.
5		+CCModifyTCH(slot, tsc)			4.
6		L!DL_DatRqSetup	SetupSnd(TCV_chTch, TCV_Setup_mt)		
7		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		

Detailed Comments :
1. To establish an MT on TCH/F or TCH/H.
2. To initiate authentication procedure.
3. To start ciphering on the traffic channel.
4. To modify the channel mode.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU9_34(ta : TA; sub : B_2; cksn : B_3)

Group : Preambles/

Objective : To bring the MS into CC state U9 by procedure in table 26.8.1.3/4. This is used in CC testing.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup.The calling tree shall prepare two variables for the step: TCV_ch for SDCCH4 subchannel, TCV_CphKey for ciphering key. The ‘setup‘ shall contain no signal IE. The test step is used for the MS does not support immediate connect.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMT_SDCCH4(ta, sub, cksn)			1.
2		+Ciphering_on(TCV_ch)			
3		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2.
4		L?DL_DatInCallCo	CallCfm(CallConfirm_01(TI_01))		
5		+CCstatuschk_02(TCV_ch, C_U9, TI_02, TI_01)			3.

Detailed Comments :
1. To assign SDCCH4 channel.
2. SETUP message without SIGNAL IE.
3. To check whether the MS is in the initial state U9, if no the test step ends with inconclusive verdict in the default tree.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10(sub : B_2; setup : SETUP_MT_PDU; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key. This test step is used for non RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMT_SDCCH4(ta, sub, cksn)			
2		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(cksn, rand))		
3		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
4		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
5	L_1003	[NOT TCV_Res]		(I)	1.
6		+PostLinkRelEnd(TCV_ch)			
7		[TCV_Res]			
8		+Ciphering_on(TCV_ch)			
9		L!DL_DatRqSetup (TCV_TI.ti_f := ’0’B, TCV_TI.ti_v := ’000’B)	SetupSnd(TCV_ch, setup)		
10		L?DL_DatInCallCo(TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm (CallConfirm_01(TI_01))		
11		[TSPX_Immconn]			
12		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
13		+CCAssignTCH(slot, tsc)			
14		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
15		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			
16		[NOT TSPX_Immconn]			
17		+CCAssignTCH(slot, tsc)			
18		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
19		(TCV_Null := OO_HookOff())			
20		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
21		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
22		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			

Detailed Comments : 1. Authentication fails, inconclusive.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10_late(sub : B_2; setup : SETUP_MT_PDU; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key. This test step is used for non RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCEstablishMT_SDCCH4(ta, sub, cksn)			
2		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(cksn, rand))		
3		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
4		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
5	L_1004	[NOT TCV_Res]		(I)	1.
6		+PostLinkRelEnd(TCV_ch)			
7		[TCV_Res]			
8		+Ciphering_on(TCV_ch)			
9		(TCV_Setup_mt.sig := Signal_01)			
10		L!DL_DatRqSetup (TCV_TI.ti_f := ’0’B, TCV_TI.ti_v := ’000’B)	SetupSnd(TCV_ch, setup)		
11		L?DL_DatInCallCo (TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
12		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
13		+localtree			
14		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
15		(TCV_Null := OO_HookOff())			
16		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
17		+localtree			
		localtree			
18		+CCAssignTCH(slot, tsc)			
19		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
20		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			

Detailed Comments : 1. Authentication fails, inconclusive.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10_r01(Ta : TA; sub : B_2; powerlevelg,powerleveld : INTEGER; cksn : B_3; rand : RAND; slot : SN; tsc : TSC; tch : B_1; rate : IA5String)

Group : Preambles/

Objective : To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.

Default : OtherEvents

Comments : The supported bearer capability is specified in the input partameter setup, test case variable TCV_TI holds the transaction ID and the transaction ID =0. This is generic call set up procedure. The calling tree shall prepare three variables for the step: TCV_ch for SDCCH4 subchannel, TCV_chTch for traffic channel, TCV_CphKey for ciphering key. The timing advance is parameter. For RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, sub, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, Ta))		
5		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
6		ACTIVATE(OtherEvents)			Restore Normal default
7		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest(cksn, rand))		
8		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)	AuthRes(AuthResponse)		
9		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
10	L_1005	[NOT TCV_Res]		I	1.
11		[TCV_Res]			
12		+Ciphering_on(TCV_ch)			
13		+localtree			
		localtree			
14		(TCV_Setup_mt.sig := Signal_01)			
15		L!DL_DatRqSetup (TCV_TI.ti_f := ’0’B, TCV_TI.ti_v := ’000’B)	SetupSnd(TCV_ch, TCV_Setup_mt)		
16		L?DL_DatInCallCo (TCV_CallCfm:=DL_DatInCallCo.msg)	CallCfm(CallConfirm_01(TI_01))		
17		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		
18		+localtree1			
19		L?DL_DatInAlert	AlertRcv(AlertingInd_02(TI_01))		
20		(TCV_Null := OO_HookOff())			
21		L?DL_DatInConn	ConnRcv(Connect_01(TI_01))		

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+localtree1			
		localtree1			
23		+AssCmdGen(TCV_cellid, rate, slot, tsc, tch)			
24		+Adjust_gsmanddcs_powerlvl(powerlevelg, powerleveld)			
25		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
26		L!DL_DatRqConnAck	ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))		
27		+CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)			
Detailed Comments : 1. Authentication fails, inconclusive.					

Test Step Dynamic Behaviour					
Test Step Name : PreEnterCCstateU10_21(sub : B_2; slot : SN; tsc : TSC; ta : TA)					
Group : Preambles/					
Objective : To bring the MS into CC state U10 by procedure in table 26.8.1.2/1. This is used in CC testing.					
Default : OtherEvents					
Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+PreEnterCCstateU4_21(sub, ta)			
2		+CCAssignTCH(slot, tsc)			1.
3		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
4		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
5		+CCstatuschk_02(TCV_chTch, C_U10, TCV_TI, TCV_TI0)			
Detailed Comments : 1. To assign the suitable traffic channel to the MS.					

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU10_22(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U10 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_22(slot, tsc, ta)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		+CCstatuschk_02(TCV_chTch, C_U10, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU11_23(sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_23(sub, slot, tsc, ta, cksn, rand)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		(TCV_Null := OO_TermCall())			
5		L?DL_DatInDisc (TCV_Cau0 := DL_DatInDisc.msg.cau, TCV_Fn := DL_DatInDisc.fn)	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))		
6		+CCstatuschk_02(TCV_chTch, C_U11, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To assign SDCCH4 channel.
2. Full rate channel needed, to setup a physical channel as full rate traffic channel.
3. Half rate channel needed, to setup a physical channel as half rate traffic channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU11_23Timer(sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_23(sub, slot, tsc, ta, cksn, rand)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		(TCV_Null := OO_TermCall())			
5		L?DL_DatInDisc (TCV_Cau0 := DL_DatInDisc.msg.cau, TCV_Fn := DL_DatInDisc.fn) START T_dly(45000)	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))		
6		+CCstatuschk_02(TCV_chTch, C_U11, TCV_TI, TCV_TI0)			

Detailed Comments : 1. To assign SDCCH4 channel.
2. Full rate channel needed, to setup a physical channel as full rate traffic channel.
3. Half rate channel needed, to setup a physical channel as half rate traffic channel.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU11_24(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U11 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_24(slot, tsc, ta)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		(TCV_Null := OO_TermCall())			
5		L?DL_DatInDisc	DiscRcv(TCV_chTch, DisconnR(TCV_TI0, Cause_Def))		
6		+CCstatuschk_02(TCV_chTch, C_U11, TCV_TI, TCV_TI0)			1.

Detailed Comments : 1. Now in CC state U11 and cause = #30.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU12_21(sub : B_2; slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U12 by procedure in table 26.8.1.2/1. This is used in CC testing.

Default : OtherEvents

Comments : The DISCONNECT message containing progress indicator #8. TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU10_21(sub, slot, tsc, ta)			
2		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		1.
3		+CCstatuschk_02(TCV_chTch, C_U12, TCV_TI, TCV_TI0)			

Detailed Comments : 1. Progress indicator = #8.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU12_22(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U12 by procedure in table 26.8.1.2/2. This is used in CC testing.

Default : OtherEvents

Comments : The DISCONNECT message containing progress indicator #8. TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU10_22(slot, tsc, ta)			
2		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		
3		+CCstatuschk_02(TCV_chTch, C_U12, TCV_TI, TCV_TI0)			1.

Detailed Comments : 1. Now in CC state U12

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU12_23(sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To bring the MS into CC state U12 by procedure in table 26.8.1.2/3. This is used in CC testing.

Default : OtherEvents

Comments : The DISCONNECT message containing progress indicator #8. TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_23(sub, slot, tsc, ta, cksn, rand)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		1.
5		+CCstatuschk_02(TCV_chTch, C_U12, TCV_TI, TCV_TI0)			

Detailed Comments : 1. Progress indicator = #8.

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU19_21(sub : B_2; slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U19 by procedure in table 26.8.1.2/1.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body. The calling tree shall preare two variables for the step: TCV_ch for the SDCCH4 subchannel; TCV_CphKey for ciphering key.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU10_21(sub, slot, tsc, ta)			
2		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
3		L?DL_DatInRel	ReleaseRcv(Release_10(TCV_TI0))		
4		+CCstatuschk_02(TCV_chTch, C_U19, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU19_24(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_24(slot, tsc, ta)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
5		L?DL_DatInRel (TCV_Fn := DL_DatInRel.fn)	ReleaseRcv(Release_10(TCV_TI0))		
6		+CCstatuschk_02(TCV_chTch, C_U19, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEnterCCstateU19_24Timer(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing.

Default : OtherEvents

Comments : TCV_TI0 contains the transcation identifier from the MS, and TCV_TI contains the transcation identifier for test system to send CC message. The values of them are used in test body.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU4_24(slot, tsc, ta)			
2		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
3		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
4		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
5		L?DL_DatInRel (TCV_Fn := DL_DatInRel.fn) START T_dly(45000)	ReleaseRcv(Release_10(TCV_TI0))		
6		+CCstatuschk_02(TCV_chTch, C_U19, TCV_TI, TCV_TI0)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEstRRConn(slot : SN; tsc : TSC; ta : TA)

Group : Preambles/

Objective : To establish a RR connection on SDCCH subchannel defined by TSPX_SDCCH4SubDef in cell A

Default : OtherEvents

Comments : The calling tree shall prepare variable for the step: TCV_ch for the SDCCH4 subchannel TSPX_SDCCH4SubDef. This test step is used for non RR testing.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, slot, tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInPgRes	PagingRes(PagingRes_01)		
6		ACTIVATE (OtherEvents)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreEstRRC_MM(par_mi : MI; cksn : BITSTRING; ta : TA)

Group : Preambles/

Objective : To establish a RR connection on C_SDCCH4_A_1

Default : OtherEvents

Comments : used var's:
TCV_Rr, TCV_Fn, TCV_Pgch, TCV_ia_ts, TCV_chdescr_arfcn

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(par_mi))		
2		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq(ChRequest_17)		
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmass	ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5	L_1006	L?DL_EstInPgRes	PagingRes(PagingRes_30(par_mi, cksn))	(P)	
6		ACTIVATE(OtherEvents)			Restore Normal default

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : PreModifySetup(sub : B_2; slot : SN; tsc: TSC; ta : TA; cksn : B_3; rand : RAND)

Group : Preambles/

Objective : To setup dual mode call and initiate MO incall modification. This is used in CC test group 26.8.1.4.5.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+InitCall(TCV_Service)			1.
2		+CCEstablishMO_SDCCH4(sub, ta)			
3		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
4		L?DL_EstInCmsRq	CMSerReq(CMServiceReq_04)		
5		ACTIVATE(OtherEvents)			Restore Normal default
6		+ltree_continue			
		ltree_continue			
7		+Ciphering_on(TCV_ch)			
8		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
9		+Authentication(TCV_ch, cksn, rand)			
10		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
11		+CCAssignTCH(slot, tsc)			
12		L!DL_DatRqAlert	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
13		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		
14		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
15		+InCallModi1(TSPX_MO_DualModSvc)			2.
16		L?DL_DatInModify (TCV_Fn := DL_DatInModify.fn, TCV_Modify := DL_DatInModify.msg)	ModifyRcv(ModifyInd_01(TCV_TI0, TCV_Bcap2))		3.

Detailed Comments : 1. To attempt a dual mode call.
2. MMI action to initiate in−call modification.
3. The expected MODIFY message received.

Test Step Dynamic Behaviour

Test Step Name : SpeechService

Group : Preambles/

Objective : To selecte a speech service, if the MS supports Telephony the selected speech service is telephony.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TSPC_Serv_TS11]			
2		+BasicServiceMO(C_Telephony, TSPX_Telephony_Rate)			
3		[TSPC_Serv_TS61]			
4		+BasicServiceMO(C_AltSpchFax, C_Full)			
5		[TSPC_Serv_BS61]			
6		+BasicServiceMO(C_AltSpchData, C_Full)			
7		[TSPC_Serv_BS81]			
8		+BasicServiceMO(C_SpchData, C_Full)			
9	L_1007	[C_Yes]		I	1.

Detailed Comments : 1. No speech service available

Test Step Dynamic Behaviour

Test Step Name : StartCellA(par_bspwr : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : B_1)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch:= OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellA))			
2		+CombinedBCCH_A(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype, slot, tsc, ta, babr, cch_con, bpm)			
3		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re, C_BCC, C_NCC, C_NCCP_2)			
4		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
5		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellA_1(par_bspwr : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs : NCD; Re : B_1)

Group : Preambles/

Objective : To set up a physical channel with parameters different from default and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A, then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell A.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellA))			
2		+CombinedBCCH_A(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype, slot, tsc, ta, babr, cch_con, bpm)			
3		+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs, Re, C_BCC, C_NCC_1, C_NCCP_2)			1.
4		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)			
5		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB(par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			
7		[cch_con = C_cch_1nonComb]			
8	L_1008	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13	L_1009	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB_1(par_bspwr : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; Re : BITSTRING; bcc : BCC; ncc : NCC)

Group : Preambles/

Objective : To set up a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B, then start transmission of default system information's for cell B.

Default : OtherEvents

Comments : The location area code is different from the cell A.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+CombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnB, C_arfcnBd, acttype, slot, tsc, ta, babr, cch_con, bpm)			
3		+SysInfoSending_nfh(C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, Re, bcc, ncc, C_NCCP_2)			1.
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
5		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			

Detailed Comments : 1. To send SYSTEM INFORMATION message with default parameter for cell B.

Test Step Dynamic Behaviour

Test Step Name : StartCellB_egsm(par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm : CCHD; bcchfl1, bcchfl2 : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with EGSM default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_e(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, C_CellReselectHys12, C_MaxPwrLvlG, bcchfl1, bcchfl2, Re, bcc, ncc, C_NCCP_2)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo5bis_B := TCV_sysinfo5bis, TCV_sysinfo6_B := TCV_sysinf6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			
7		[cch_con = C_cch_1nonComb]			
8	L_1010	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13	L_1011	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellB_ho(par_bspwr, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; cchdgsm, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : BITSTRING; bcc : BCC; ncc : NCC; td, fn : INTEGER)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell B.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))			
2		+ltree_chconf			
3		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
5		[cch_con = C_cch_1Comb]			
6		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			
7		[cch_con = C_cch_1nonComb]			
8	L_1012	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	
		ltree_chconf			
9		[cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)			
11		[cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)			
13	L_1013	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb)]		I	

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartCellC(par_bspwr : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING; Re : BITSTRING; bcc : BCC; ncc : NCC)

Group : Preambles/

Objective : To setup a physical channel as combined BCCH, CCCH and SDCCH4 then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters of cell C.

Default : OtherEvents

Comments : IMSI attach/detach not allowed (ATT=0). Cell C belongs to PLMN1.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_C := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellC))			
2		+CombinedBCCH_C(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnC, C_arfcnCd, acttype, slot, tsc, ta, babr, cch_con, bpm)			
3		+SysInfoSending_nfh(C_SCH_C, C_BCCH_C_1, 5, 1, 0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc, mnc, lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_07, BcchFreqLst_07, BcchFreqLst_15, BcchFreqLst_15, Re, bcc, ncc, C_NCCP_2)			1.
4		(TCV_Ccd0C := TCV_Ccd0H, TCV_sysinfo5_C := TCV_sysinf5, TCV_sysinfo6_C := TCV_sysinf6)			
5		+SysInfo_SacchSending(TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : Start_2cells(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lacA, lacB : OCTETSTRING)

Group : Preambles/

Objective : To start cell A and cell B with default parameters except power level of cell A and power level of cell B and to bring the MS in Idle updated state on given cell.

A and B are from different location areas belonging to PLMN2. PLMN2 is different from HPLMN.
IMSI attach detach is allowed in both cells.
T3212 value is 1/10 in both cells.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+StartCellB(C_E_default, C_arfcnB, C_arfcnBd, acttype, slot, tsc, ta, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, mcc, mnc, lacB, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)			
2		+StartCellA(C_E_neighbourdefault, acttype, slot, tsc, ta, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, mcc, mnc, lacA, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)			

Detailed Comments :

Test Step Dynamic Behaviour

Test Step Name : StartMultiCells_01(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc2, mnc2, mcc3, mnc3, mcc4, mnc4, mcc5, mnc5, mcc6, mnc6, mcc7, mnc7, mcc8, mnc8, lac : OCTETSTRING)

Group : Preambles/

Objective : To setup 8 or 7 physical channels representing different cells then broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 in multiple cells for idle mode testing.

Default : OtherEvents

Comments : The parameters for SYSTEM INFORMATION messages are defined in section 26.3.1 of GSM 11.10

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB), TCV_sacch_C := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellC), TCV_sacch_D := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellD), TCV_sacch_E := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellE), TCV_sacch_F := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellF), TCV_sacch_G := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellG), TCV_sacch_H := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellH))			
2		+cell2			
3		+cell3			
4		+cell4			
5		+cell5			
6		+cell6			
7		[TSPC_PGSM OR TSPC_EGSM]			
8		+cell7g			
9		+cell8			
10		[TSPC_DCS]			
11		+cell7d			
		cell2			
12		+CombinedBCCH_B(63, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 7, 580, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13		+SysInfoSending_nfh(C_SCH_B, C_BCCH_B_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc2, mnc2, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_06, BcchFreqLst_06, BcchFreqLst_14, BcchFreqLst_14, C_noRestablishment, C_BCC, C_NCC_1, C_NCCP_2)			
14		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)			
15		+SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)			
		cell3			
16		+CombinedBCCH_C(61, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 39, 610, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		+SysInfoSending_nfh(C_SCH_C, C_BCCH_C_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc3, mnc3, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_07, BcchFreqLst_07, BcchFreqLst_15, BcchFreqLst_15, C_noRestablishment, C_BCC, C_NCC_2, C_NCCP_2)			
18		(TCV_Ccd0C := TCV_Ccd0H, TCV_sysinfo5_C := TCV_sysinf5, TCV_sysinfo6_C := TCV_sysinf6)			
19		+SysInfo_SacchSending(TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C)			
		cell4			
20		+CombinedBCCH_D(55, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 65, 702, acttype, slot, tsc, ta, babr, cch_con, bpm)			
21		+SysInfoSending_nfh(C_SCH_D, C_BCCH_D_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc4, mnc4, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_08, BcchFreqLst_08, BcchFreqLst_16, BcchFreqLst_16, C_noRestablishment, C_BCC, C_NCC_3, C_NCCP_2)			
22		(TCV_Ccd0D := TCV_Ccd0H, TCV_sysinfo5_D := TCV_sysinf5, TCV_sysinfo6_D := TCV_sysinf6)			
23		+SysInfo_SacchSending(TCV_sacch_D, TCV_sysinfo5_D, TCV_sysinfo6_D)			
		cell5			
24		+CombinedBCCH_E(59, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 66, 703, acttype, slot, tsc, ta, babr, cch_con, bpm)			
25		+SysInfoSending_nfh(C_SCH_E, C_BCCH_E_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellE, mcc5, mnc5, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_09, BcchFreqLst_09, BcchFreqLst_17, BcchFreqLst_17, C_noRestablishment, C_BCC, C_NCC_4, C_NCCP_2)			
26		(TCV_Ccd0E := TCV_Ccd0H, TCV_sysinfo5_E := TCV_sysinf5, TCV_sysinfo6_E := TCV_sysinf6)			
27		+SysInfo_SacchSending(TCV_sacch_E, TCV_sysinfo5_E, TCV_sysinfo6_E)			
		cell6			
28		+CombinedBCCH_F(57, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 85, 830, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		+SysInfoSending_nfh(C_SCH_F, C_BCCH_F_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc6, mnc6, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_10, BcchFreqLst_10, BcchFreqLst_18, BcchFreqLst_18, C_noRestablishment, C_BCC, C_NCC_5, C_NCCP_2)			
30		(TCV_Ccd0F := TCV_Ccd0H, TCV_sysinfo5_F := TCV_sysinf5, TCV_sysinfo6_F := TCV_sysinf6)			
31		+SysInfo_SacchSending(TCV_sacch_F, TCV_sysinfo5_F, TCV_sysinfo6_F)			
		cell7g			
32		+CombinedBCCH_G_sp(55, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 97, 985, 885, acttype, slot, tsc, ta, babr, cch_con, bpm)			
33		+SysInfoSending_nfh(C_SCH_G, C_BCCH_G_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc7, mnc7, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_11, BcchFreqLst_11, BcchFreqLst_19, BcchFreqLst_19, C_noRestablishment, C_BCC, C_NCC_6, C_NCCP_2)			
34		(TCV_Ccd0G := TCV_Ccd0H, TCV_sysinfo5_G := TCV_sysinf5, TCV_sysinfo6_G := TCV_sysinf6)			
35		+SysInfo_SacchSending(TCV_sacch_G, TCV_sysinfo5_G, TCV_sysinfo6_G)			
		cell7d			
36		+CombinedBCCH_G_sp(55, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 97, 985, 885, acttype, slot, tsc, ta, babr, cch_con, bpm)			
37		+SysInfoSending_nfhCb(C_SCH_G, C_BCCH_G_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc8, mnc8, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_11, BcchFreqLst_11, BcchFreqLst_19, BcchFreqLst_19, C_noRestablishment, C_BCC, C_NCC_6, C_NCCP_2)			
38		(TCV_Ccd0G := TCV_Ccd0H, TCV_sysinfo5_G := TCV_sysinf5, TCV_sysinfo6_G := TCV_sysinf6)			
39		+SysInfo_SacchSending(TCV_sacch_G, TCV_sysinfo5_G, TCV_sysinfo6_G)			
		cell8			
40		+CombinedBCCH_H(53, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 124, 124, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
41		+SysInfoSending_nfh(C_SCH_H, C_BCCH_H_1, C_TxInt_10, C_Max_2, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc8, mnc8, lac, CellOpt_02, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_12, BcchFreqLst_12, BcchFreqLst_12, BcchFreqLst_12, C_noRestablishment, C_BCC, C_NCC_7, C_NCCP_2)			
42		(TCV_sysinfo5_H := TCV_sysinf5, TCV_sysinfo6_H := TCV_sysinf6)			
43		+SysInfo_SacchSending(TCV_sacch_H, TCV_sysinfo5_H, TCV_sysinfo6_H)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : StartMultiCells_02(bcchfl_gsm, bcchfl_dcs : NCD; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lacB, lacC, lacD, lacE, lacF, lacG, lacH : OCTETSTRING)

Group : Preambles/

Objective : To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.

Default : OtherEvents

Comments : The parameters for SYSTEM INFORMATION messages are defined in section 26.6.3 of GSM 11.10

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+cellN1			
2		+cellN2			
3		+cellN3			
4		+cellN4			
5		+cellN5			
6		+cellN6			
7		+cellN7			
		cellN1			
8		+CombinedBCCH_B(28, C_MaxPwrLvlG, C_MaxPwrLvlD, 8, 530, acttype, slot, tsc, ta, babr, cch_con, bpm)			
9		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
10		(TCV_Ccd0B := TCV_Ccd0H)			
		cellN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 14, 602, acttype, slot, tsc, ta, babr, cch_con, bpm)			
12		+SysInfoSending_fh(C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc, mnc, lacC, CellOpt_01, CellChDes_06, CellChDes_06d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
13		(TCV_Ccd0C := TCV_Ccd0H)			
		cellN3			
14		+CombinedBCCH_D(38, C_MaxPwrLvlG, C_MaxPwrLvlD, 20, 665, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2)			ncc = 1
16		(TCV_Ccd0D := TCV_Ccd0H)			
		cellN4			
17		+CombinedBCCH_E(58, C_MaxPwrLvlG, C_MaxPwrLvlD, 26, 762, acttype, slot, tsc, ta, babr, cch_con, bpm)			
18		+SysInfoSending_fh(C_SCH_E, C_BCCH_E_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellE, mcc, mnc, lacE, CellOpt_01, CellChDes_08, CellChDes_08d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_3, C_NCC, C_NCCP_2)			ncc = 1
19		(TCV_Ccd0E := TCV_Ccd0H)			
		cellN5			
20		+CombinedBCCH_F(63, C_MaxPwrLvlG, C_MaxPwrLvlD, 32, 686, acttype, slot, tsc, ta, babr, cch_con, bpm)			
21		+SysInfoSending_fh(C_SCH_F, C_BCCH_F_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc, mnc, lacF, CellOpt_01, CellChDes_09, CellChDes_09d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			ncc = 1
22		(TCV_Ccd0F := TCV_Ccd0H)			
		cellN6			
23		+CombinedBCCH_G(68, C_MaxPwrLvlG, C_MaxPwrLvlD, 38, 549, acttype, slot, tsc, ta, babr, cch_con, bpm)			
24		+SysInfoSending_fh(C_SCH_G, C_BCCH_G_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc, mnc, lacG, CellOpt_01, CellChDes_10, CellChDes_10d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
25		(TCV_Ccd0G := TCV_Ccd0H)			
		cellN7			
26		+CombinedBCCH_H(73, C_MaxPwrLvlG, C_MaxPwrLvlD, 44, 810, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		+SysInfoSending_fh(C_SCH_H, C_BCCH_H_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc, mnc, lacH, CellOpt_01, CellChDes_11, CellChDes_11d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : StartMultiCells_02e(bcchfl_gsm, bcchfl_dcs : NCD; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lacA, lacB, lacC, lacD, lacE, lacF, lacG, lacH : OCTETSTRING)

Group : Preambles/

Objective : To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.

Default : OtherEvents

Comments : The parameters for SYSTEM INFORMATION messages are defined in section 26.10.2 of GSM 11.10

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+cellN1			
2		+cellN2			
3		+cellN3			
4		+cellN4			
5		+cellN5			
6		+cellN6			
7		+cellN7			
		cellN1			
8		+CombinedBCCH_B(28, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnEgsm, C_arfcnEgsm, acttype, slot, tsc, ta, babr, cch_con, bpm)			
9		+SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
10		(TCV_Ccd0B := TCV_Ccd0H)			
		cellN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 1005, 1005, acttype, slot, tsc, ta, babr, cch_con, bpm)			
12		+SysInfoSending_fh(C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc, mnc, lacC, CellOpt_01, CellChDes_06, CellChDes_06d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
13		(TCV_Ccd0C := TCV_Ccd0H)			
		cellN3			
14		+CombinedBCCH_D(38, C_MaxPwrLvlG, C_MaxPwrLvlD, 0, 0, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2)			ncc = 1
16		(TCV_Ccd0D := TCV_Ccd0H)			
		cellN4			
17		+CombinedBCCH_E(58, C_MaxPwrLvlG, C_MaxPwrLvlD, 26, 26, acttype, slot, tsc, ta, babr, cch_con, bpm)			
18		+SysInfoSending_fh(C_SCH_E, C_BCCH_E_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellE, mcc, mnc, lacE, CellOpt_01, CellChDes_08, CellChDes_08d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_3, C_NCC, C_NCCP_2)			ncc = 1
19		(TCV_Ccd0E := TCV_Ccd0H)			
		cellN5			
20		+CombinedBCCH_F(63, C_MaxPwrLvlG, C_MaxPwrLvlD, 1020, 1020, acttype, slot, tsc, ta, babr, cch_con, bpm)			
21		+SysInfoSending_fh(C_SCH_F, C_BCCH_F_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc, mnc, lacF, CellOpt_01, CellChDes_09, CellChDes_09d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			ncc = 1
22		(TCV_Ccd0F := TCV_Ccd0H)			
		cellN6			
23		+CombinedBCCH_G(68, C_MaxPwrLvlG, C_MaxPwrLvlD, 38, 38, acttype, slot, tsc, ta, babr, cch_con, bpm)			
24		+SysInfoSending_fh(C_SCH_G, C_BCCH_G_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc, mnc, lacG, CellOpt_01, CellChDes_10, CellChDes_10d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
25		(TCV_Ccd0G := TCV_Ccd0H)			
		cellN7			
26		+CombinedBCCH_H(73, C_MaxPwrLvlG, C_MaxPwrLvlD, 1003, 1003, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		+SysInfoSending_fh(C_SCH_H, C_BCCH_H_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc, mnc, lacH, CellOpt_01, CellChDes_11, CellChDes_11d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : StartMultiCells_03(bcchfl_gsm, bcchfl_dcs : NCD; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lacA, lacC, lacD, lacE, lacF, lacG, lacH : OCTETSTRING)

Group : Preambles/

Objective : To broadcast SYSTEM INFORMATION messages 1, 2, 3, 4, 5 and 6 in multiple cells for measurement testing. Neighbour cells description for cell S1 is a formal parameter.

Default : OtherEvents

Comments : The parameters for SYSTEM INFORMATION messages are defined in section 26.6.3 of GSM 11.10

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+cellS			
2		+cellN2			
3		+cellN3			
4		+cellN4			
5		+cellN5			
6		+cellN6			
7		+cellN1			
		cellS			
8		+CombinedBCCH_A(C_E_neighbourdefault, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcn_2, C_arfcnAd_2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
9		+SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellA, mcc, mnc, lacA, CellOpt_03, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_35, BcchFreqLst_27, C_noRestablishment, C_BCC_3, C_NCC, C_NCCP_2)			
10		(TCV_Ccd0A := TCV_Ccd0H)			
		cellN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 14, 602, acttype, slot, tsc, ta, babr, cch_con, bpm)			
12		+SysInfoSending_fh(C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellC, mcc, mnc, lacC, CellOpt_01, CellChDes_06, CellChDes_06d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
13		(TCV_Ccd0C := TCV_Ccd0H)			
		cellN3			
14		+CombinedBCCH_D(38, C_MaxPwrLvlG, C_MaxPwrLvlD, 20, 665, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
15		+SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_1, C_NCC, C_NCCP_2)			ncc = 1
16		(TCV_Ccd0D := TCV_Ccd0H)			
		cellN4			
17		+CombinedBCCH_E(58, C_MaxPwrLvlG, C_MaxPwrLvlD, 26, 762, acttype, slot, tsc, ta, babr, cch_con, bpm)			
18		+SysInfoSending_fh(C_SCH_E, C_BCCH_E_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellE, mcc, mnc, lacE, CellOpt_01, CellChDes_08, CellChDes_08d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_3, C_NCC, C_NCCP_2)			ncc = 1
19		(TCV_Ccd0E := TCV_Ccd0H)			
		cellN5			
20		+CombinedBCCH_F(63, C_MaxPwrLvlG, C_MaxPwrLvlD, 32, 686, acttype, slot, tsc, ta, babr, cch_con, bpm)			
21		+SysInfoSending_fh(C_SCH_F, C_BCCH_F_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc, mnc, lacF, CellOpt_01, CellChDes_09, CellChDes_09d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			ncc = 1
22		(TCV_Ccd0F := TCV_Ccd0H)			
		cellN6			
23		+CombinedBCCH_G(68, C_MaxPwrLvlG, C_MaxPwrLvlD, 38, 549, acttype, slot, tsc, ta, babr, cch_con, bpm)			
24		+SysInfoSending_fh(C_SCH_G, C_BCCH_G_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc, mnc, lacG, CellOpt_01, CellChDes_10, CellChDes_10d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
25		(TCV_Ccd0G := TCV_Ccd0H)			
		cellN1			
26		+CombinedBCCH_H(28, C_MaxPwrLvlG, C_MaxPwrLvlD, 8, 530, acttype, slot, tsc, ta, babr, cch_con, bpm)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		+SysInfoSending_fh(C_SCH_H, C_BCCH_H_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc, mnc, lacH, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
Detailed Comments :					

Test Step Dynamic Behaviour

Test Step Name : TS61MO(srv : SERVICES)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap for TS61 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := TSPX_TS_61_ur1, TCV_CE := C_BothT)			
2		+local_selectCe			
3		+local_bcap			get the right BC
4		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
5		(TCV_Setup_mo := Setup_11_3100(C_RI_alternate, Bcap_Speech_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_AnyOrOmit, C_RI_alternate, C_RI_alternate, Hlcmp_NotApplicable, Hlcmp_TS61))			Non EFR Mobile − generate SETUP
6		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			initiate channel mode variables
7		(TCV_Null := OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur, TCV_ce, TCV_ChRate))			ask operator to configure the MS
8		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
9		(TCV_Setup_mo := Setup_11_3100(C_RI_alternate, Bcap_Speech_Efr_MO(C_Rchr_dontcare), TCV_BcapMO1, Llcmp_NotApplicable, Llcmp_AnyOrOmit, C_RI_alternate, C_RI_alternate, Hlcmp_NotApplicable, Hlcmp_TS61))			EFR Mobile − generate SETUP
10		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			initiate channel mode variables
11		(TCV_Null := OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur, TCV_ce, TCV_ChRate))			ask operator to configure the MS
		local_bcap			
12		[TCV_ce = C_transparent]			
13		[TCV_ur = C_9600bs]			
14		+local_TS61_FAX3_T(C_9600bs, C_ir_16kbs)			
15		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
16		+local_TS61_FAX3_T(TCV_ur, C_ir_8kbs)			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17	L_1014	[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT parameter error
18		[TCV_ce = C_notransparent]			
19		+local_TS61_FAX3_NT(TCV_ur)			
		local_TS61_FAX3_T(ur : B_4; ir : B_2)			
20		(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.2.7.1
		local_TS61_FAX3_NT(ur : B_4)			
21		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
22		[ur=C_9600bs]			
23		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_FAX3, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE, C_modemt_none, C_X25_flct), TCV_bcapListIndicator))			11.8.2.7.2
24		[(ur=C_2400bs) OR (ur = C_4800bs)]			
25		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(TCV_Rchr, C_FAX3, C_SDUintegrity, C_nirr_dontcare, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE, C_modemt_none, C_X25_flct), TCV_bcapListIndicator))			11.8.2.7.2
26	L_1015	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	IXIT parameter error
		local_selectCe			
27		[TSPX_TS_61_T_NT]			
28		(TCV_ce := C_notransparent)			
29		[NOT TSPX_TS_61_T_NT]			
30		(TCV_ce := TSPX_TS_61_ce)			

Detailed Comments : The TS61 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.7.1 and section 11.8.2.7.2 of GSM 11.10 and section B.1.10.2 and section B.2.10 of GSM 07.01.

The algorithm for selecting parameters:
IF (TSPX_BS_61_T_NT)
    TCV_ce := C_notransparent
ELSE
    TCV_ce := TSPX_BS_61_ce

use (TCV_ce, TSPX_BS_61_ur1, svc) for OO_IFsetup_TS6x_MO

Test Step Dynamic Behaviour

Test Step Name : TS62MO(srv : SERVICES)

Group : Preambles/

Objective : To generate an MO SETUP message with appropriate Bcap for TS62 service.

Default : OtherEvents

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_srv := srv, TCV_ur := TSPX_TS_62_ur1, TCV_CE := C_BothT)			variables used in InitCall
2		+local_selectCe			
3		+local_bcap			get the right BC
4		(TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1, Llcmp_AnyOrOmit, Hlcmp_TS62))			
5		+Chmod(TCV_ChRate, TCV_ce, TCV_ur, srv)			
6		(TCV_Null := OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur, TCV_ce, TCV_ChRate))			
		local_bcap			
7		[TCV_ce = C_transparent]			
8		[TCV_ur = C_9600bs]			
9		+local_TS62_FAX3_T(C_9600bs, C_ir_16kbs)			
10		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
11		+local_TS62_FAX3_T(TCV_ur, C_ir_8kbs)			
12	L_1016	[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT parameter error
13		[TCV_ce = C_notransparent]			
14		+local_TS62_FAX3_NT(TCV_ur)			
		local_TS62_FAX3_T(ur : B_4; ir : B_2)			
15		(TCV_BcapMO1 := Bcap_MO(C_Rchr_dontcare, C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.2.7.1
		local_TS62_FAX3_NT(ur : B_4)			
16		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
17		[ur = C_9600bs]			
18		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(C_Rchr_dontcare, C_FAX3, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE, C_modemt_none, C_X25_flct), TCV_bcapListIndicator))			11.8.2.7.2
19		[(ur = C_2400bs) OR (ur = C_4800bs)]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		(TCV_BcapMO1 := OC_ModifyBcap (BcapX_MO(C_Rchr_dontcare, C_FAX3, C_SDUintegrity, C_nirr_dontcare, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, TCV_CE, C_modemt_none, C_X25_flct), TCV_bcapListIndicator))			11.8.2.7.2
21	L_1017	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)] local_selectCe		I	IXIT parameter error
22		[TSPX_TS_62_T_NT]			
23		(TCV_ce := C_notransparent)			
24		[NOT TSPX_TS_62_T_NT]			
25		(TCV_ce := TSPX_TS_62_ce)			

Detailed Comments : The TS62 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.7.1 and section 11.8.2.7.2 of GSM 11.10 and section B.1.10.2 and section B.2.11 of GSM 07.01.

The algorithm for selecting parameters:
IF (TSPX_BS_62_T_NT)
    TCV_ce := C_notransparent
ELSE
    TCV_ce := TSPX_BS_62_ce

use (TCV_ce, TSPX_BS_62_ur1, svc) for OO_IFsetup_TS6x_MO

Test Step Dynamic Behaviour

Test Step Name : TS61MT(srv : SERVICES)
Group : Preambles/
Objective : To generate an MT SETUP message with appropriate Bcap for TS61 service.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_maintree			
2		+local_IFsetup			
		local_maintree			
3		(TCV_srv := srv, TCV_2ndtest := C_Yes)			
4		(TCV_BcapMT1 := Bcap_Speech_MT)			1st Bcap
5		+local_first_SETUP_msg			
6		+local_second_SETUP_msg			
		local_first_SETUP_msg			
7		(TCV_ur := TSPX_TS_61_ur1)			
8		[TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = C_notransparent)]			
9		+local_bcap2(TCV_ur, C_notransparent)			
10		(TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
11		+Chmod(TCV_ChRate, C_notransparent, TCV_ur, srv)			2nd channel mode
12		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
13		[NOT TSPX_TS_61_T_NT AND (TSPX_TS_61_ce = C_transparent)]			
14		+local_bcap2(TCV_ur, C_transparent)			
15		(TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
16		+Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)			2nd channel mode
17		(TCV_ChMod.mode := C_ChMod_r)			Speech mode
		local_second_SETUP_msg			
18		+local_userrate			
19		[TSPX_TS_61_T_NT]			
20		+local_bcap2(TCV_ur2, C_transparent)			2nd Bcap
21		(TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
22		[NOT TSPX_TS_61_T_NT]			
23		+local_bcap2(TCV_ur2, C_BothT)			
24		(TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
		local_bcap2(ur : B_4; ce : B_2)			
25		[ce = C_transparent]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		[(ur = C_2400bs) OR (ur = C_4800bs)]			
27		+local_TS61_FAX3_T(ur, C_ir_8kbs)			
28		[ur = C_9600bs]			
29		+local_TS61_FAX3_T(ur, C_ir_16kbs)			
30	L_1018	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
31		[ce = C_BothT]			
32		+local_TS61_FAX3_NT(ur, C_BothT)			
33		[ce = C_notransparent]			
34		+local_TS61_FAX3_NT(ur, C_notransparent)			
35	L_1019	[(ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_notransparent)]		I	
		local_TS61_FAX3_T(ur : B_4; ir : B_2)			
36		(TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.5.1
		local_TS61_FAX3_NT(ur : B_4; ce1 : B_2)			
37		(TCV_BcapMT2 := Bcap_MT(C_FAX3, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, C_modemt_none))			11.8.1.5.2
		local_userrate			
38		[TSPX_TS_61_more_ur]			
39		(TCV_ur2 := TSPX_TS_61_ur2)			
40		[NOT TSPX_TS_61_more_ur]			
41		(TCV_ur2 := TSPX_TS_61_ur1)			
		local_IFsetup			
42		[TCV_supported]			
43		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
44		[NOT TCV_supported]			
45		[TCV_SpecialCase]			
46		START T_dly(C_T_Wait)			
47		?TIMEOUT T_dly			
48	L_1020	[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of TS61 Bearer Capabilities:

The 1st facsimile group 3 Bearer Capability (used for an MT call):
ur= TSPX_TS_61_ur1
IF TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = NT)
    use coding 11.8.1.5.2 with (ur & ce=NT)
ELSE
    use coding 11.8.1.5.1 with (ur & ce=T)

The 2nd facsimile group 3 Bearer Capabiility (used for TC_11_1_1):
IF TSPX_TS_61_more_ur

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Test Step Dynamic Behaviour
Detailed Comments : ... ur=TSPX_TS_61_ur2 ELSE ur=TSPX_TS_61_ur1 IF TSPX_TS_61_T_NT use coding 11.8.1.5.1 with (ur & ce=T) ELSE use coding 11.8.1.5.2 with(ur & ce=both/T)

Test Step Dynamic Behaviour

Test Step Name : TS62MT(srv : SERVICES)
Group : Preambles/
Objective : To generate an MT SETUP message with appropriate Bcap for TS62 service.
Default : OtherEvents
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+local_maintree			
2		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
		local_maintree			
3		(TCV_srv := srv, TCV_2ndtest := C_Yes)			
4		+local_first_SETUP_msg			
5		+local_second_SETUP_msg			
		local_first_SETUP_msg			
6		(TCV_ur := TSPX_TS_62_ur1)			
7		[TSPX_TS_62_T_NT OR (TSPX_TS_62_ce = C_notransparent)]			
8		+local_bcap2(TCV_ur, C_notransparent)			
9		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02))			
10		+Chmod(TCV_ChRate, C_notransparent, TCV_ur, srv)			
11		[NOT TSPX_TS_62_T_NT AND (TSPX_TS_62_ce = C_transparent)]			
12		+local_bcap2(TCV_ur, C_transparent)			
13		(TCV_Setup_mt := Setup_20(TCV_BcapMT2, TI_02))			
14		+Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)			
		local_second_SETUP_msg			
15		+local_userrate			
16		[TSPX_TS_62_T_NT]			
17		+local_bcap2(TCV_ur2, C_transparent)			
18		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02))			
19		[NOT TSPX_TS_62_T_NT]			
20		+local_bcap2(TCV_ur2, C_BothT)			
21		(TCV_Setup_mt1 := Setup_20(TCV_BcapMT2, TI_02))			
		local_bcap2(ur : B_4; ce : B_2)			
22		[ce = C_transparent]			
23		[(ur = C_2400bs) OR (ur = C_4800bs)]			
24		+local_TS62_FAX3_T(ur, C_ir_8kbs)			
25		[ur = C_9600bs]			
26		+local_TS62_FAX3_T(ur, C_ir_16kbs)			
27	L_1021	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
28		[ce = C_BothT]			
29		+local_TS62_FAX3_NT(ur, C_BothNT)			
30		[ce = C_notransparent]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
31		+local_TS62_FAX3_NT(ur, C_notransparent)			
32	L_1022	[(ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_notransparent)]		I	
		local_TS62_FAX3_T(ur : B_4; ir : B_2)			
33		(TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none))			11.8.1.5.1
		local_TS62_FAX3_NT(ur : B_4; ce1 : B_2)			
34		(TCV_BcapMT2 := Bcap_MT(C_FAX3, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, ce1, C_modemt_none))			11.8.1.5.2
		local_userrate			
35		[TSPX_TS_62_more_ur]			
36		(TCV_ur2 := TSPX_TS_62_ur2)			
37		[NOT TSPX_TS_62_more_ur]			
38		(TCV_ur2 := TSPX_TS_62_ur1)			
		local_IFsetup			
39		[TCV_supported]			
40		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
41		[NOT TCV_supported]			
42		[TCV_SpecialCase]			
43		START T_dly(C_T_Wait)			
44		?TIMEOUT T_dly			
45	L_1023	[NOT TCV_SpecialCase]		I	Parameter error

Detailed Comments : The algorithm for derivation of TS62 Bearer Capabilities:

The 1st Bearer Capability (used for an MT call):
ur= TSPX_TS_62_ur1
IF TSPX_TS_62_T_NT OR (TSPX_TS_62_ce = NT)
    use coding 11.8.1.5.2 with (ur & ce=NT)
ELSE
    use coding 11.8.1.5.1 with (ur & ce=T)

The 2nd Bearer Capabiility (used for TC_11_1_1):
IF TSPX_TS_62_more_ur
    ur=TSPX_TS_62_ur2
ELSE
    ur=TSPX_TS_62_ur1
IF TSPX_TS_62_T_NT
    use coding 11.8.1.5.1 with (ur & ce=T)
ELSE
    use coding 11.8.1.5.2 with(ur & ce=both/T)

Default Dynamic Behaviour

Default Name : DTMFsig

Group :

Objective : To match DTMF signalling when an MMI key in the MS is depressed or released in the active state

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_DatInStartDtmf(TCV_Char := DL_DatInStartDtmf.msg.kpf.kpf_info, TCV_TI4:=DL_DatInStartDtmf.msg.ti)	StartDTMFRcv(StartDtmf_03)		
2		[TCV_TI4.ti_v = TCV_TI0.ti_v]			
3		(TCV_TI4:= TCV_TI)			
4		L!DL_DatRqStartDtmfAck	StartDTMFAckSnd(TCV_chTch, StartDtmfAck_01(TCV_TI4, TCV_Char))		
5		RETURN			
6		[C_Yes]			
7		(TCV_TI4:= TCV_TI2)			
8		L!DL_DatRqStartDtmfAck	StartDTMFAckSnd(TCV_chTch, StartDtmfAck_01(TCV_TI4, TCV_Char))		
9		RETURN			
10		L?DL_DatInStopDtmf(TCV_TI4:=DL_DatInStopDtmf.msg.ti)	StopDTMFRcv(StopDtmf_02)		
11		[TCV_TI4.ti_v = TCV_TI0.ti_v]			
12		(TCV_TI4:= TCV_TI)			
13		L!DL_DatRqStopDtmfAck	StopDTMFAckSnd(TCV_chTch, StopDtmfAck_01(TCV_TI4))		
14		RETURN			
15		[C_Yes]			
16		(TCV_TI4:= TCV_TI2)			
17		L!DL_DatRqStopDtmfAck	StopDTMFAckSnd(TCV_chTch, StopDtmfAck_01(TCV_TI4))		
18		RETURN			

Detailed Comments :

Default Dynamic Behaviour

Default Name : OtherEvents
Group :
Objective : To match unexpected events and sign final verdict for preambles.
Comments : used in preambles.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		4.
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7	L_1024	CANCEL		I	3.
8		L?OTHERWISE			2.
9	L_1026	CANCEL		I	3.

Detailed Comments : 1. The guard timer times out, inconclusive.
2. Unexpected events, inconclusive.
3. Cancel of all running timers.
4. Local end termination request allowed.

Default Dynamic Behaviour

Default Name : OtherEventsFail
Group :
Objective : To match unexpected events and fail the test case.
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7	L_1027	CANCEL		I	3.
8		L?OTHERWISE			2.
9	L_1029	CANCEL		F	3.

Detailed Comments : 1. The guard timer times out, inconclusive.
2. Unexpected events, fail.
3. Cancel of all running timers.

Default Dynamic Behaviour

Default Name : OtherEventsFail_01

Group :

Objective : To match irrelevant CHANNEL REQUEST msg and MEASUREMENT REPORT msg and return or match other unexpected events and fail the test case.

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_01		6.
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7	L_1030	CANCEL		I	5.
8		L?DL_RacInChRq	ChReq(ChRequest_02)		2.
9		RETURN			
10		L?DL_UdatInMsrRpt	MsrRept(MsrReport_02)		3.
11		RETURN			
12		L?OTHERWISE			4.
13	L_1032	CANCEL		F	5.

Detailed Comments :
1. The guard timer times out, inconclusive.
2. To throw away any irrelevant channel request.
3. To throw away any measurement report.
4. Other unexpected events, fail.
5. Cancel of all running timers.
6. Cover also DLRelInd_02 for local end termination.

Default Dynamic Behaviour

Default Name : OtherEventsFail_02

Group :

Objective : To match unexpected events and fail the test case but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assigment message.

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		L?DL_RacInChRq	ChReq(ChRequest_02)		1.
6		RETURN			
7		?TIMEOUT T_guard			2.
8		(TCV_Null := OO_TguardTimeOut())			
9	L_1033	CANCEL		I	4.
10		L?OTHERWISE			3.
11	L_1035	CANCEL		F	4.

Detailed Comments : 1. To throw away any irrelevant channel request.
2. The guard timer times out, inconclusive.
3. Unexpected events, fail.
4. Cancel of all running timers.

Default Dynamic Behaviour

Default Name : OtherEvents_01

Group :

Objective : To match irrelevant messages and return

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?OTHERWISE			1.
2		RETURN			

Detailed Comments : 1. Cover also DLRelInd_02 for local end termination.

Default Dynamic Behaviour

Default Name : OtherEvents_02

Group :

Objective : To match unexpected events and sign final verdict for preambles but ignore channel request messages that are sent before the lower tester has sent (and the MS received) the Immediate Assigment message.

Comments : used in preambles.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		L?DL_RacInChRq	ChReq(ChRequest_02)		1.
6		RETURN			
7		?TIMEOUT T_guard			2.
8		(TCV_Null := OO_TguardTimeOut())			
9	L_1036	CANCEL		I	4.
10		L?OTHERWISE			3.
11	L_1038	CANCEL		I	4.

Detailed Comments : 1. To throw away any irrelevant channel request.
2. The guard timer times out, inconclusive.
3. Unexpected events, inconclusive.
4. Cancel of all running timers.

Default Dynamic Behaviour

Default Name : RcvHdOvAcc

Group :

Objective : To match any HANDOVER ACCESS then return to calling tree.

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInHoacc	HndOvAcc_01		
2		RETURN			

Detailed Comments :