

# I

## Test Suite Overview

## Test Suite Structure

**Suite Name** : Rel4\_GSM\_L3\_MS\_v420  
**Standards Ref** : ETS 300 557  
**PICS Ref** :  
**PIXIT Ref** :  
**Test Method(s)** : Distributed Single Layer Test Method  
**Comments** : 51.010-3 Version 4.2.0 after GERAN WG4 #4 (GERAN #5)

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 attach 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 control 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_2	SelExpr_0201	MS indication of available PLMNs	1074
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
BiBo/	TC_26_5_2_3	SelExpr_0301	TI and skip indicator / CC	1085
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
BiBo/	TC_26_5_3_3	SelExpr_0302	Undefined or unexpected message type / undefined message type / RR	1089
BiBo/	TC_26_5_3_4	SelExpr_0301	Undefined or unexpected message type / unexpected message type / CC	1091
BiBo/	TC_26_5_4_1	SelExpr_0302	Unforeseen info elements in non-imperative message part / duplicated info elements	1092
BiBo/	TC_26_5_5_1_1_1	SelExpr_0302	Non-semantic mandatory IE errors / RR / missing mandatory IE error / special case	1094
BiBo/	TC_26_5_5_1_1_2	SelExpr_0302	Non-semantic mandatory IE errors / RR / missing mandatory IE error / general case	1095
BiBo/	TC_26_5_5_1_2	SelExpr_0302	Non-semantic mandatory ie errors / RR / comprehension required	1096
BiBo/	TC_26_5_5_2_1	SelExpr_0301	Non-semantic mandatory IE errors / MM / syntactically incorrect mandatory IE	1098
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BiBo/	TC_26_5_5_3_1_2	SelExpr_0301	Non-semantic mandatory IE errors / CC / missing mandatory IE / general case	1104
BiBo/	TC_26_5_5_3_2	SelExpr_0301	Non-semantic mandatory IE errors / CC / comprehension required	1105
BiBo/	TC_26_5_6_1_1	SelExpr_0302	Unknown IE, comprehension not required / MM / IE unknown in the protocol	1106
BiBo/	TC_26_5_6_1_2	SelExpr_0302	Unknown IE, comprehension not required / MM / IE unknown in the message	1108
BiBo/	TC_26_5_6_2_1	SelExpr_0301	Unknown info elements in the non-imperative message part / CC / Call establishment	1110
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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
BiBo/	TC_26_5_7_1_1	SelExpr_0302	Spare bits / RR / paging channel	1115
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BiBo/	TC_26_5_7_2	SelExpr_0302	Spare bits / MM	1120
BiBo/	TC_26_5_7_3	SelExpr_0301	Spare bits / CC	1121
RR/	TC_26_6_1_1	SelExpr_0401	Immediate Assignment / SDCCH or TCH assignment	1123

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RR/	TC_26_6_1_4	SelExpr_0401	Immediate Assignment / ignore assignment	1132
RR/	TC_26_6_1_5	SelExpr_0401	Immediate Assignment after immediate assignment reject	1134
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RR/	TC_26_6_2_1_2	SelExpr_0401	Paging / normal / type 2	1139
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RR/	TC_26_6_2_2	SelExpr_0401	Paging / extended	1145
RR/	TC_26_6_2_3_1	SelExpr_0401	Paging / reorganisation / procedure 1	1149
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
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RR/	TC_26_6_5_2_5	SelExpr_0408	Retransmit L3-msg during non synchr. HO from TCH/F_NonFH in cell A to TCH/H_NonFH in cellB.	1203
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
RR/	TC_26_6_5_2_9	SelExpr_0410	Retransmit L3-msg during non synchr. HO from SDCCH8_NoFH in cell A to TCH/F_FH in cellB.	1214
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
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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_4_4	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8_NoFH → TCH/F_NoFH)	1236
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
RR/	TC_26_6_5_8	SelExpr_0402	Handover / L3-failure 11.10 Ref. ver.4.10.0; CR 11.10-720	1252
RR/	TC_26_6_5_9	SelExpr_0402	Handover / L1-failure 11.10 Ref. ver.4.10.0; CR 11.10-720	1255
RR/	TC_26_6_6_1	SelExpr_0401	Frequency redefinition	1258
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RR/	TC_26_6_7_2	SelExpr_0404	Channel mode modify / half rate 11.10 Ref ver. 4.10.0;CR.0295-17r1; 11.10-780	1266
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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_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
RR/	TC_26_6_13_2	SelExpr_0401	Dedicated assignment with starting time / successful case / time elapsed	1301
RR/	TC_26_6_13_3	SelExpr_0401	Dedicated assignment with starting time and frequency redefinition/ failure case / time not elapsed	1303
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RR/	TC_26_6_13_5	SelExpr_0401	Handover with starting time / successful case / time not elapsed	1309
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MM/	TC_26_7_4_2_3	SelExpr_0501	Location Update Rejected with the cause "Location area not allowed".	1349
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CC/	TC_26_8_1_2_4_1	SelExpr_0601	Outgoing call / U3 MS originating call proceeding / ALERTING received	1419
CC/	TC_26_8_1_2_4_2	SelExpr_0601	Outgoing call / U3 MS originating call proceeding / CONNECT received	1420
CC/	TC_26_8_1_2_4_3	SelExpr_0601	Outgoing call / U3 MS origintg. call proceeding / PROGRESS received without in band information.	1421
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CC/	TC_26_8_1_2_5_1	SelExpr_0601	Outgoing call / U4 call delivered / CONNECT received	1434
CC/	TC_26_8_1_2_5_2	SelExpr_0601	Outgoing call / U4 call delivered / termination requested by the user	1435
CC/	TC_26_8_1_2_5_3	SelExpr_0601	Outgoing call / U4 call delivered / DISCONNECT with in band tones	1436
CC/	TC_26_8_1_2_5_4	SelExpr_0601	Outgoing call / U4 call delivered / DISCONNECT without in band tones	1437
CC/	TC_26_8_1_2_5_5	SelExpr_0601	Outgoing call / U4 call delivered / RELEASE received	1438
CC/	TC_26_8_1_2_5_6	SelExpr_0601	Outgoing call / U4 call delivered / lower layer failure	1439
CC/	TC_26_8_1_2_5_7	SelExpr_0601	Outgoing call / U4 call delivered / traffic channel allocation	1440
CC/	TC_26_8_1_2_5_8	SelExpr_0601	Outgoing call / U4 call delivered / unknown message received	1441
CC/	TC_26_8_1_2_6_1	SelExpr_0601	U10 call active / termination requested by the user	1442
CC/	TC_26_8_1_2_6_2	SelExpr_0601	U10 call active / RELEASE received	1443
CC/	TC_26_8_1_2_6_3	SelExpr_0601	U10 call active / DISCONNECT with in band tones	1444
CC/	TC_26_8_1_2_6_4	SelExpr_0601	U10 call active / DISCONNECT without in band tones	1446
CC/	TC_26_8_1_2_6_5	SelExpr_0601	U10 call active / RELEASE COMPLETE received	1447
CC/	TC_26_8_1_2_6_6	SelExpr_0601	U10 call active / SETUP received	1448
CC/	TC_26_8_1_2_7_1	SelExpr_0601	U11 disconnect request / clear collision	1450
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CC/	TC_26_8_1_2_7_4	SelExpr_0601	U11 disconnect request / lower layer failure	1454
CC/	TC_26_8_1_2_7_5	SelExpr_0601	U11 disconnect request / unknown message received	1455
CC/	TC_26_8_1_2_8_1	SelExpr_0604	U12 disconnect indication / call releasing requested by the user	1456
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CC/	TC_26_8_1_2_8_3	SelExpr_0604	U12 disconnect indication / lower layer failure	1458
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CC/	TC_26_8_1_2_9_1	SelExpr_0601	Outgoing call / U19 release request / timer T308 timeout	1460
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CC/	TC_26_8_1_2_9_3	SelExpr_0601	Outgoing call / U19 release request / RELEASE received	1463
CC/	TC_26_8_1_2_9_4	SelExpr_0601	Outgoing call / U19 release request / RELEASE COMPLETE received	1464
CC/	TC_26_8_1_2_9_5	SelExpr_0601	Outgoing call / U19 release request / lower layer failure	1465
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CC/	TC_26_8_1_3_3_1	SelExpr_0606	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting 11.10 Ref. ver. 4.10.0; CR.	1468
CC/	TC_26_8_1_3_3_2	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / TCH assignment	1469
CC/	TC_26_8_1_3_3_3	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / termination requested by the user	1470

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CC/	TC_26_8_1_3_3_4	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	1471
CC/	TC_26_8_1_3_3_5	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / RELEASE received	1472
CC/	TC_26_8_1_3_3_6	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / lower layer failure	1473
CC/	TC_26_8_1_3_3_7	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / unknown message received	1474
CC/	TC_26_8_1_3_4_1	SelExpr_0602	Incoming call / U7 call received / call accepted	1475
CC/	TC_26_8_1_3_4_2	SelExpr_0602	Incoming call / U7 call received / termination requested by the user 11.10 Ref. ver. 4.10.0; CR.	1476
CC/	TC_26_8_1_3_4_3	SelExpr_0602	Incoming call / U7 call received / DISCONNECT received	1477
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CC/	TC_26_8_1_3_4_5	SelExpr_0602	Incoming call / U7 call received / lower layer failure	1479
CC/	TC_26_8_1_3_4_6	SelExpr_0602	Incoming call / U7 call received / unknown message received	1480
CC/	TC_26_8_1_3_4_7	SelExpr_0602	Incoming call / U7 call received / TCH assignment	1481
CC/	TC_26_8_1_3_4_8	SelExpr_0602	Incoming call / U7 call received / RELEASE COMPLETE received	1482
CC/	TC_26_8_1_3_5_1	SelExpr_0602	Incoming call / U8 connect request / CONNECT acknowledged	1483
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CC/	TC_26_8_1_3_5_5	SelExpr_0602	Incoming call / U8 connect request / DISCONNECT received without in-band information	1487



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CC/	TC_26_8_1_3_5_7	SelExpr_0602	Incoming call / U8 connect request / lower layer failure	1489
CC/	TC_26_8_1_3_5_8	SelExpr_0602	Incoming call / U8 connect request / TCH assignment	1490
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CC/	TC_26_8_1_4_3_2	SelExpr_0606	In-call functions / Channel changes / An unsuccessful channel change in active mode/ Handover and assignment command	1499
CC/	TC_26_8_1_4_4_1	SelExpr_0607	In-call functions / MS terminated in-call modification / modify when new mode is not supported	1502
CC/	TC_26_8_1_4_5_1	SelExpr_0607	In-call functions / MS originated in-call modification / A successful case of modifying	1504
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StructureProc/	TC_26_9_6_1_1	SelExpr_0702	Structured procedures / emergency call / idle updated / preferred channel rate	1541
StructureProc/	TC_26_9_6_1_2	SelExpr_0703	Structured procedures / emergency call / idle updated, non-preferred channel rate	1544

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EGSMSignalling/	TC_26_10_2_4_1	SelExpr_1001	E-GSM signalling/ RR / Handover / successful case	1565
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SS/	TC_31_2_1_6_1	SelExpr_0811	Call forwarding supplementary services / Interrogation – Interrogation Accepted	1602
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SS/	TC_31_8_1_1	SelExpr_0801	Call restriction supplementary services / Registration of a password/ Registration accepted	1641
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SS/	TC_31_8_4_2_1	SelExpr_0808	Deactivation rejected / Rejection after invoke of DeactivateSS operation	1663
SS/	TC_31_8_4_2_2	SelExpr_0805	Deactivation rejected / Rejection after use of password procedure	1665
SS/	TC_31_8_6_1	SelExpr_0806	Interrogation / Interrogation accepted	1668
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SS/	TC_31_9_1_2	SelExpr_0817	mobile station initiated / unstructured supplementary service data request rejected	1683
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SS/	TC_31_9_2_2	SelExpr_0817	network initiated / unstructured supplementary service request rejected	1692
SS/	TC_31_9_2_3	SelExpr_0817	network initiated / unstructured supplementary service data notification accepted	1694
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SS/	TC_31_10	SelExpr_0815	MMI input for USSD	1698
MSFeatures/	TC_33_6	SelExpr_0002	Subscription Identity Management	1700
SM/	TC_34_2_1	SelExpr_0901	Short message service / SMS point to point – SMS mobile terminated	1702
SM/	TC_34_2_2	SelExpr_0902	Short message service / SMS point to point – SMS mobile originated	1708
SM/	TC_34_2_3	SelExpr_0903	Short message service / SMS point to point – Test of the memory available notification	1713
SM/	TC_34_2_4	SelExpr_0904	Short message service / Test of the status report capabilities and of SMS-COMMAND	1719

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SM/	TC_34_2_5_1	SelExpr_0905	Short message service / Test of message class 0 to 3 – Test of Class 0 Short Messages	1723
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SM/	TC_34_2_7	SelExpr_0908	Short message service / Test of the replace mechanism for SM type 1–7	1731
SM/	TC_34_2_8	SelExpr_0909	Short message service / Test of the reply path scheme	1733
SM/	TC_34_3	SelExpr_0900	Short message service cell broadcast	1737
Detailed Comments :				

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Test Step Group Reference	Test Step Id	Description	Page Nr
management/	StopAllBCCH	To stop the RF transmission of all BCCH channels in all active cells.	1740
management/	Stopmaindcch	To stop the transmission of main dcch channel.	1740
management/	CCConfigTCH	Configure Tester for TCH/H or TCH/F depending on TCV_ChRate. Set power level according to parameter.	1741
management/	CCConfigTCH_B		1742
management/	CCConfigTCH_nociph		1743
management/	CCConfigTCH_pwr		1744
management/	Config_CBMS_A_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH, SDCCH4 and CBCH onto the physical channel which represents cell A.	1746
management/	Config_FACCHF_A_1	To set one physical channel used as TCHF_ACCH's of cell A.	1747
management/	Config_FACCHF_A_2	To set one physical channel used as TCHF_ACCH's for instance 2 of cell A.	1748
management/	Config_FACCHF_B_1	To set one physical channel used as TCHF_ACCH's of cell B.	1749
management/	Config_FACCHF_H_1	To set one physical channel used as TCHF_ACCH's of cell H.	1750
management/	Config_FACCHH_A_1	To set one physical channel used as TCHH_ACCH's of cell A.	1751
management/	Config_FACCHH_A_2	To set one physical channel used as TCHH_ACCH's of cell A.	1752
management/	Config_FACCHH_B_1	To set one physical channel used as TCHH_ACCH's of cell B.	1753
management/	Config_BCCH_CCCH_A_1	To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell A.	1754
management/	Config_BCCH_CCCH_A_2	To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.	1755
management/	Config_BCCH_CCCH_A_3	To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A.	1756
management/	Config_BCCH_CCCH_A_4	To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A.	1757
management/	Config_BCCH_CCCH_B_1	To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B.	1758
management/	Config_BCCH_CCCH_B_ho_1	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.	1759

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management/	Config_SDCCH4_A_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.	1760
management/	Config_SDCCH4_B_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.	1761
management/	Config_SDCCH4_B_ho_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B with controllable td and fn.	1762
management/	Config_SDCCH4_C_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C	1763
management/	Config_SDCCH4_D_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D	1764
management/	Config_SDCCH4_E_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E	1765
management/	Config_SDCCH4_F_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F	1766
management/	Config_SDCCH4_G_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G	1767
management/	Config_SDCCH4_H_1	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H	1768
management/	Config_SDCCH8_A_1	To set one physical channel used as SDCCH8 channel for instance 1 of cell A.	1769
management/	Config_SDCCH8_A_2	To set one physical channel used as SDCCH8 channel for instance 2 of cell A.	1770
management/	Config_SDCCH8_B_1	To set one physical channel used as SDCCH8 channel for instance 1 of cell B.	1771
management/	CombinedBCCH_A_CBMS	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.	1772
management/	CombinedBCCH_A	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A.	1772



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management/	CombinedBCCH_B	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.	1773
management/	CombinedBCCH_B_ho	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.	1773
management/	CombinedBCCH_C	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C.	1774
management/	CombinedBCCH_D	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D.	1774
management/	CombinedBCCH_E	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E.	1775
management/	CombinedBCCH_F	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F.	1775
management/	CombinedBCCH_G	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G.	1776
management/	CombinedBCCH_G_sp	To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G.	1776
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
management/	NonCombinedBCCH_A	To set one physical channel used as FCHH_SCH_BCCH_CCCH for cell A.	1777
management/	NonCombinedBCCH_A_2	To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.	1778
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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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

Test Step Index			
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

Test Step Index			
Test Step Group Reference	Test Step Id	Description	Page Nr
Miscellaneous/	CheckTlInStateU0		1812
Miscellaneous/	ChkMsrmtRpt		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/	CMSrvRq	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 calculate 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, MSCClassMark and Mobile Identity is not required and are not checked.	1827

Test Step Index			
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, MSCClassMark 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 the Location Update Procedure.	1829
Miscellaneous/	MM_LupInit3	To execute the initialisation of the Location Update Procedure.	1830
Miscellaneous/	MM_LupInit4	To execute the initialisation of the Location 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_cmsservices	To check, if MS doesn't execute a MO CM connection procedure.	1840

Test Step Index			
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 whether 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

Test Step Index			
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

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



Test Step Index			
Test Step Group Reference	Test Step Id	Description	Page Nr
Preambles/	CallCfmGen	generate a CALL CONFIRMED for CALL CONFIRMED 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

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

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 assignment, 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 assignment 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

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

Continued from previous page

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 Assignment 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 Assignment 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

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

Simple Type Definitions	
Detailed Comments :	

Structured Type Definition			
<b>Type Name</b> : ACST <b>Encoding Variation</b> : <b>Comments</b> : 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			
<b>Type Name</b> : EFR_BCAP_3A_ETC <b>Encoding Variation</b> : <b>Comments</b> : 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
dplx	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			
<b>Type Name</b> : BLOCKTYPE			
<b>Encoding Variation</b> :			
<b>Comments</b> : Block type, GSM 04.12, 3.3.1			
Element Name	Type Definition	Field Encoding	Comments
spare1	SPB		'01'B
lpd	BITSTRING[2]		
lb	BITSTRING[1]		
sequence_number	BITSTRING[4]		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CAU <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : &COMMON_U06			

Structured Type Definition			
<b>Type Name</b> : CCCAP <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CCD <b>Encoding Variation</b> : <b>Comments</b> : 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 multiframe for paging request
t3212	OCTETSTRING [1]		t3212 value
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CCHD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The info element is two octets long.			

Structured Type Definition			
<b>Type Name</b> : CDPN			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		Type of number and numbering plan
tonnpi	TON_NPI		
digits	BCDN		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CDPS			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition				
<b>Type Name</b> : CGPN				
<b>Encoding Variation</b> :				
<b>Comments</b> : 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		Type of number and numbering plan	
tonnpi	TON_NPI			
pisi	PI_SI			Presentation indicator & screening indicator
digits	BCDN			BCD numbers
<b>Detailed Comments</b> :				



Structured Type Definition			
<b>Type Name</b> : CGPS <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CHD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CHMOD <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CHNEED <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CNN <b>Encoding Variation</b> : <b>Comments</b> : 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
pis	PI_SI		Presentation indicator & screening indicator
digits	BCDN		BCD numbers
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CNS <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CO <b>Encoding Variation</b> : <b>Comments</b> : 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
pwr	BITSTRING [1]		power control indicator
dt	BITSTRING [2]		CO/BCCH: discontinuous transmission indicator, CO/SACCH: DTX-F for the full rate
rlt	BITSTRING [4]		radio link timeout
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : Component_T <b>Encoding Variation</b> : <b>Comments</b> : 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
invokeld	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		
<b>Detailed Comments</b> : This component is defined for the use in the downlink (from the test system to the IUT) direction.			

Structured Type Definition			
<b>Type Name</b> : CPDATA <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : One of the 4 types of rpdu is contained in the CPDATA.			

Structured Type Definition			
<b>Type Name</b> : CPHMS <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CPHKSN <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CPH_RES <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CSP <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : CST <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : FIE <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 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			
<b>Type Name</b> : FN <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> : In STRT and RQR			

Structured Type Definition			
<b>Type Name</b> : FRQCHS <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : FRQL <b>Encoding Variation</b> : <b>Comments</b> : Frequency list, frequency short list GSM 04.08, 10.5.2.5, 10.5.2.6			
Element Name	Type Definition	Field Encoding	Comments
iei iel fl	IEI_8 LENGTH OCTETSTRING		'00000101'B, '00000010'B OCTETSTRING [1] list of the absolute radio frequency channel numbers
<b>Detailed Comments</b> : frequency short list has a fixed length of 10 octets and does not contain the length indicator.			

Structured Type Definition			
<b>Type Name</b> : FRQPARA <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : HLCMP <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : HOACC_PARA <b>Encoding Variation</b> : <b>Comments</b> : 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]		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : IARESTOCT <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			



Structured Type Definition			
<b>Type Name</b> : IARESTOCT2 <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : KPF (keypad facility) <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> : Is extb needed?			

Structured Type Definition			
<b>Type Name</b> : L1HD <b>Encoding Variation</b> : <b>Comments</b> : Layer 1 Header			
Element Name	Type Definition	Field Encoding	Comments
spr1	BITSTRING[3]		spare bits
mshwrlvl	BITSTRING[5]		actual MS power level
spr2	BITSTRING[1]		spare bit
ta	BITSTRING[7]		actual timing advance
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : LAI			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

## 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
dplx	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			
<b>Type Name</b> : LUT <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : MA <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : MI <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : MODEMTYPE <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Type Definition	Field Encoding	Comments
v_abt1	B_5		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : MSCLM1 <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 2 octets long			

Structured Type Definition			
<b>Type Name</b> : MSCLM2 <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 4 octets long			

Structured Type Definition			
<b>Type Name</b> : MSCLM3			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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]		
<b>Detailed Comments</b> : 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
<b>Detailed Comments</b> : The info element has a fixed length of 16 octets.			

Structured Type Definition			
<b>Type Name</b> : MTDIF <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : NCD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : NCD2 <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : PCMD <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : PI <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : total 4 octets			

Structured Type Definition			
<b>Type Name</b> : PI_SI <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : PM <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : RACHCP <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The info element has a fixed length of 3 octets.			

Structured Type Definition			
<b>Type Name</b> : RPACK <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : RPCAU <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : RPDATA <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : RPERR <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : RPSMMA <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> : SM memory available			

Structured Type Definition			
<b>Type Name</b> : RPUSRDAT <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 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 tpdldr_sbmt_rpt and therefore only five tp message types exist in this type definition.			

Structured Type Definition			
<b>Type Name</b> : RQR <b>Encoding Variation</b> : <b>Comments</b> : Request reference GSM 04.08, 10.5.2.30			
Element Name	Type Definition	Field Encoding	Comments
ra fn	BITSTRING [8] FN		GSM 04.08, 9.1.8
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SI3RO <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 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
<b>Detailed Comments</b> : The info element has a fixed length of 10 octets.			

Structured Type Definition			
<b>Type Name</b> : SI7RO <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The info element has a fixed length of 20 octets.			

Structured Type Definition			
<b>Type Name</b> : SIGNAL <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



Structured Type Definition			
<b>Type Name</b> : SERIAL_NUMBER <b>Encoding Variation</b> : <b>Comments</b> : 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]		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMCMD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMDLVR <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMDLVR_RPT <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMSBMT <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMSCBpack <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SMST_RPT <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SSVI <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : STRT <b>Encoding Variation</b> : <b>Comments</b> : Starting time GSM 04.08, 10.5.2.38			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		'01111101'B
fn	FN		
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SUBAD <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : SYNCHI <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TA <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TDIF <b>Encoding Variation</b> : <b>Comments</b> : Time difference GSM 04.08, 10.5.1.41			
Element Name	Type Definition	Field Encoding	Comments
iei iel value	IEI_8 LENGTH OCTETSTRING [1]		'01111011'B OCTETSTRING [1] one unit = 24/13 microseconds (in half bit periods)
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TI <b>Encoding Variation</b> : <b>Comments</b> : Transaction identifier GSM 04.08, 10.1			
Element Name	Type Definition	Field Encoding	Comments
ti_f ti_v	BITSTRING [1] TI_V		Flag TI value
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TMSI <b>Encoding Variation</b> : <b>Comments</b> : Temporary GSM 04.08, 10.5.2.42			
Element Name	Type Definition	Field Encoding	Comments
iei tmsi_val	IEI_8 OCTETSTRING [4]		'01111110'B
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TON_NPI <b>Encoding Variation</b> : <b>Comments</b> : 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'
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TPA <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TPDCS <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : Identifying the coding scheme within the TP user data.			

Structured Type Definition			
<b>Type Name</b> : TPPID			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : TPST			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Definition			
<b>Type Name</b> : UNKWN			
<b>Encoding Variation</b> :			
<b>Comments</b> : unknown IE			
Element Name	Type Definition	Field Encoding	Comments
iei	IEI_8		
iel	LENGTH		
contents	OCTETSTRING		
<b>Detailed Comments</b> :			



Structured Type Definition			
<b>Type Name</b> : UU <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 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	
<b>Type Name</b> : Component <b>Encoding Variation</b> : <b>Comments</b> : 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 }	
<b>Detailed Comments</b> : Plural components as each type represents invoke, return result, return error etc.	

ASN.1 Type Definition	
<b>Type Name</b>	: Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 3.6
Type Definition	
SET OF Component	
<b>Detailed Comments</b> : ASN.1 transfer encoding rules: BER is not wholly 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	
<b>Type Name</b>	: ActivateSS_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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_SubscriptionViolationsErr [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     }	
<b>Detailed Comments</b> : 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_SubscriptionViolationsErr [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	
<b>Type Name</b>	: ForwardChargeAdvice_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 4.2
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	: Timer T_aoc = 1 – 40 s

ASN.1 Type Definition	
<b>Type Name</b>	: ForwardCheckSSIndication_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE {   forwardCheckSSIndication_InvokeComp [1] IMPLICIT SEQUENCE {     invokeID          InvokeIDType,     localValue        INTEGER (38) },    forwardCheckSSIndication_RejectComp [4] IMPLICIT RejectComponent } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ForwardCUGInfo_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 4.2
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: General_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: Non specified components must match this type definition.
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: GetPassword_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	: Timer m

ASN.1 Type Definition	
<b>Type Name</b>	: HoldMPTY_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 4.2
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	: 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	
<b>Type Name</b>	: NotifySS_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 4.2
Type Definition	
<pre> 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,       callsWaiting_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 } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ProcessUnstructuredSSData_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	: Timer m

ASN.1 Type Definition	
<b>Type Name</b>	: ProcessUnstructuredSSRequest_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> 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    } </pre>	
<b>Detailed Comments</b>	: 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_SubscriptionViolationsErr [3] IMPLICIT SEQUENCE { invokeID  InvokeIDType,
                                                                errorCode ErrorLocalValues
                                                                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	
<b>Type Name</b>	: RejectComponent
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
<pre> 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 } } </pre>	
<b>Detailed Comments</b>	: Reject Component is not specific to any particular operation. The invokedID may be used to identify a specific operation.

ASN.1 Type Definition	
<b>Type Name</b>	: RetrieveMPTY_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 04.80, 4.2
Type Definition	
<pre> CHOICE {   retrieveMPTY_InvokeComp      [1] IMPLICIT SEQUENCE {     invokedID      InvokeIDType,     localValue     INTEGER (122) },    retrieveMPTY_ReturnResultComp [2] IMPLICIT SEQUENCE {     invokedID      InvokeIDType,     result         SEQUENCE {       localValue   INTEGER (122) } },    retrieveMPTY_ReturnErrorComp CHOICE {     errorCodes [3] IMPLICIT SEQUENCE { invokedID      InvokeIDType,  errorCode      ErrorLocalValues ( illegalSS_Operation  facilityNotSupported ) },      ss_ErrorStatusErr [3] IMPLICIT SEQUENCE { invokedID      InvokeIDType,   errorCode      ErrorLocalValues ( ss_ErrorStatus ),   parameter      SS_Status },      ss_IncompatibilityErr [3] IMPLICIT SEQUENCE { invokedID      InvokeIDType,   errorCode      ErrorLocalValues ( ss_Incompatibility ),   parameter      SS_IncompatibilityCause },      systemFailureErr [3] IMPLICIT SEQUENCE { invokedID      InvokeIDType,   errorCode      ErrorLocalValues ( systemFailure ),   parameter      NetworkResource } },    retrieveMPTY_RejectComp      [4] IMPLICIT RejectComponent } </pre>	
<b>Detailed Comments</b>	: 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	
<pre> 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      } </pre>	
Detailed Comments	: Timer m



ASN.1 Type Definition	
<b>Type Name</b>	: UnstructuredSSRequest_Components
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> 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  } </pre>	
<b>Detailed Comments</b>	: Timer m

ASN.1 Type Definition	
<b>Type Name</b>	: AddressString
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8
Type Definition	
OCTET STRING (SIZE ( 1 .. maxAddressLength ))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: Asn1Integer
<b>Encoding Variation</b>	:
<b>Comments</b>	: INTEGER of ASN.1 type
Type Definition	
INTEGER	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BasicServiceCode
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8
Type Definition	
CHOICE { bearerService [2] IMPLICIT BearerServiceCode, teleservice [3] IMPLICIT TeleserviceCode }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BasicServiceGroupList
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8
Type Definition	
SEQUENCE SIZE ( 1 .. maxNumOfBasicServiceGroups ) OF BasicServiceCode	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: BearerServiceCode
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.10
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallBarringCause
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.7
Type Definition	
ENUMERATED { barringServiceActive (0), operatorBarring (1) }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallBarringFeature
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { basicService BasicServiceCode OPTIONAL, ss_Status [4] IMPLICIT SS_Status OPTIONAL }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallBarringFeatureList
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE SIZE (1..maxNumOfBasicServiceGroups) OF CallBarringFeature	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CallBarringInfo
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ss_Code SS_Code OPTIONAL, callBarringFeatureList CallBarringFeatureList }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: CliRestrictionOption
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
ENUMERATED { permanent (0), temporaryDefaultRestricted (1), temporaryDefaultAllowed (2) }	
<b>Detailed Comments</b>	:

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	
<b>Type Name</b>	: CUG_Info
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { cug_SubscriptionList CUG_SubscriptionList, cug_FeatureList CUG_FeatureList OPTIONAL }	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: CUG_Subscription
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { cug_Index CUG_Index, cug_Interlock CUG_Interlock, intraCUG_Options IntraCUG_Options, basicServiceGroupList BasicServiceGroupList OPTIONAL }	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: CUG_SubscriptionList
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE SIZE (1.. maxNumOfCUG ) OF CUG_Subscription	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
Type Name	: ErrorLocalValues
Encoding Variation	:
Comments	: GSM 04.80, 4.5
Type Definition	
INTEGER { unknownSubscriber	

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	
<b>Type Name</b>	: ForwardingFeatureList
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE SIZE (1..maxNumOfBasicServiceGroups) OF ForwardingFeature	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: ForwardingInfo
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ss_Code                      SS_Code      OPTIONAL, forwardingFeatureList ForwardingFeatureList }	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: ForwardingOptions
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: GeneralProblem
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
TCAP_Problems ( unrecognizedComponent   mistypedComponent   badlyStructuredComponent )	
<b>Detailed Comments</b> : Type restricted to these three.	

ASN.1 Type Definition	
<b>Type Name</b>	: InterCUG_Restrictions
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b>	: 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	
<b>Type Name</b>	: IntraCUG_Options
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
ENUMERATED { noCUG_Restrictions (0), cugIC_CallBarred (1), cugOG_CallBarred (2) }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: InvokeIDType
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T, Q.773
Type Definition	
INTEGER (−128 .. 127)	
<b>Detailed Comments</b>	: 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	
<b>Type Name</b>	: InvokeProblem
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
TCAP_Problems ( duplicateInvokeID   unrecognizedOperation   mistypedArgument   resourceLimitation   initiatingRelease   unrecognizedLinkedID   linkedResponseUnexpected   unexpectedLinkedOperation )	
<b>Detailed Comments</b>	: Type restricted to these 8.

ASN.1 Type Definition	
<b>Type Name</b>	: ISDN_AddressString
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8
Type Definition	
AddressString (SIZE ( 1 .. maxISDN_AddressLength ))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: ISDN_SubaddressString
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8
Type Definition	
OCTET STRING (SIZE ( 1 .. maxISDN_SubaddressLength ))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: NetworkResource
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.8,
Type Definition	
ENUMERATED { plmn                   (0), hlr                   (1), vlr                   (2), pvlr                  (3), controllingMSC       (4), vmcsc                (5), eir                   (6), rss                   (7) }	
<b>Detailed Comments</b> : Elements of INTEGER are global for the ATS.	

ASN.1 Type Definition	
<b>Type Name</b>	: NoReplyConditionTime
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
INTEGER (5 .. 30 )	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: Operation
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
CHOICE { localValue INTEGER, globalValue OBJECT IDENTIFIER}	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: OverrideCategory
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
ENUMERATED { overrideEnabled (0), overrideDisabled (1) }	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: Password
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
NumericString (FROM ("0" "1" "2" "3" "4" "5" "6" "7" "8" "9")) (SIZE (4))	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: PW_RegistrationFailureCause
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.7
Type Definition	
ENUMERATED { undetermined (0), invalidFormat (1), newPasswordsMismatch (2) }	
<b>Detailed Comments</b> :	

ASN.1 Type Definition	
<b>Type Name</b>	: ReturnErrorProblem
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
TCAP_Problems ( unrecognizedInvokeID   returnErrorUnexpected   unrecognizedError   unexpectedError   mistypedParameter )	
<b>Detailed Comments</b> : Type restricted to these 5.	

ASN.1 Type Definition	
<b>Type Name</b>	: ReturnResultProblem
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
TCAP_Problems ( unrecognizedInvokeID   returnResultUnexpected   mistypedResult )	
<b>Detailed Comments</b> : 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	
<b>Type Name</b>	: SS_Info
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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     } 	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: SS_Status
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b>	: 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	
<b>Type Name</b>	: SS_SubscriptionOption
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
CHOICE { overrideCategory [1] IMPLICIT OverrideCategory, cliRestrictionOption [2] IMPLICIT CliRestrictionOption } 	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: SS_UserData
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
IA5String (SIZE (1 .. maxSignalInfoLength))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: TCAP_Problems
<b>Encoding Variation</b>	:
<b>Comments</b>	: ITU-T Q.767
Type Definition	
<pre> 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 } </pre>	
<b>Detailed Comments</b>	: Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

ASN.1 Type Definition	
<b>Type Name</b>	: TeleserviceCode
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.9
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: USSD_Arg
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
<pre> SEQUENCE {   ussd_DataCodingScheme  USSD_DataCodingScheme,   ussd_String             USSD_String } </pre>	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: USSD_Res
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ussd_DataCodingScheme   USSD_DataCodingScheme, ussd_String            USSD_String }	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: USSD_DataCodingScheme
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
<b>Detailed Comments</b>	:

ASN.1 Type Definition	
<b>Type Name</b>	: USSD_String
<b>Encoding Variation</b>	:
<b>Comments</b>	: GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1..maxUSSD_StringLength))	
<b>Detailed Comments</b>	: 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	
<b>Operation Name</b>	: OC_Asn1intToOct(n : Asn1Integer; l: INTEGER)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	:
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 $-2^{\exp(p-1)}$ ); OC_Asn1intToOct(-32768,2) = '8000'O (MSB (position p out of 1...p) represents $-2^{\exp(p-1)}$ ).	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_Bcap(setup : SETUP_MO_PDU; callproc : CALL_PROC_PDU; mem : INTEGER)
<b>Result Type</b>	: BCAP
<b>Comments</b>	:
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'.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_BinAdd(bitstr1 : BITSTRING; bitstr2 : BITSTRING)
<b>Result Type</b>	: BITSTRING
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:



Test Suite Operation Definition	
<b>Operation Name</b>	: OC_Bit7(bstring: B_8)
<b>Result Type</b>	: BITSTRING
<b>Comments</b>	: 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	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_BCDtoInt(bcdstring:HEXSTRING; relevant_digits: INTEGER)
<b>Result Type</b>	: INTEGER
<b>Comments</b>	:
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	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CalledNumCHK(callednum : OCTETSTRING; dialnum : IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_ChkSRES(sres : OCTETSTRING; ki: BITSTRING; rand : BITSTRING)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: sres is 32 bits value.
Description	
<p>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.</p> <ul style="list-style-type: none"> <li>– firstly the 'ki' XOR to the 'rand' results in RES1;</li> <li>– then compare the most significant 32 bits of the RES1 with the 'sres';</li> <li>– if they are equal, the 'sres' is correct and the operation returns TRUE;</li> <li>– if they are not equal, the 'sres' is wrong and the operation returns FALSE.</li> </ul> <p>NOTE: this procedure is the test algorithm for authentication defined by GSM.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CnvtMax(max : INTEGER)
<b>Result Type</b>	: B_2
<b>Comments</b>	:
Description	
<p>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:</p> <ol style="list-style-type: none"> <li>1. the result is '00'B if the 'max' = 1,</li> <li>2. the result is '01'B if the 'max' = 2,</li> <li>3. the result is '10'B if the 'max' = 4,</li> <li>4. the result is '11'B if the 'max' = 7.</li> </ol> <p>for example:</p> <p>OC_CnvtMax(1) = '00'B,  OC_CvntMax(7) = '11'B.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CnvtTx(tx : INTEGER)
<b>Result Type</b>	: B_4
<b>Comments</b>	: The result BITSTRING is 4 bits long.
Description	
<p>OC_CnvtTx converts the input integer 'tx' into a BITSTRING according the following rule:</p> <ol style="list-style-type: none"> <li>1. the result is '0000'B if the 'tx' = 3,</li> <li>2. the result is '0001'B if the 'tx' = 4,</li> <li>3. the result is '0010'B if the 'tx' = 5,</li> <li>4. the result is '0011'B if the 'tx' = 6,</li> <li>5. the result is '0100'B if the 'tx' = 7,</li> <li>6. the result is '0101'B if the 'tx' = 8,</li> <li>7. the result is '0110'B if the 'tx' = 9,</li> <li>8. the result is '0111'B if the 'tx' = 10,</li> <li>9. the result is '1000'B if the 'tx' = 11,</li> <li>10. the result is '1001'B if the 'tx' = 12,</li> <li>11. the result is '1010'B if the 'tx' = 14,</li> <li>12. the result is '1011'B if the 'tx' = 16,</li> <li>13. the result is '1100'B if the 'tx' = 20,</li> <li>14. the result is '1101'B if the 'tx' = 25,</li> <li>15. the result is '1110'B if the 'tx' = 32,</li> <li>16. the result is '1111'B if the 'tx' = 50.</li> </ol> <p>for example:</p> <p>OC_CnvtTx(3) = '0000'B, OC_CnvtTx(5) = '0010'B.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CodeSMSCBMessage(firstoct: INTEGER; lastoct: INTEGER)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CodingOfUssdString(text: IA5String)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	:
Description	
<p>This operation provides the coding for a USSD String 'text' in the default alpaet, each character represented by 7 bits. The bits are arranged acc. to GSM 03.38, clause 6.1.2.2.1.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_ComputeSMContents(NumberOfCharacters: INTEGER)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	: 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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_ComputeSMContentsSpecText(NumbOfIA5chara: INTEGER; text: IA5String)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	: 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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_CphKeyGen(ki : BITSTRING; rand : BITSTRING)
<b>Result Type</b>	: BITSTRING
<b>Comments</b>	: 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: <ul style="list-style-type: none"> <li>– firstly the 'ki' XOR to the 'rand' results in RES1;</li> <li>– then discard the most significant 32 bits of the RES;</li> <li>– the next 64 bits of RES1 are the ciphering key, the operation returns this value.</li> <li>– the 32 least singnificant bits are not used.</li> </ul>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_FirstDigi(bcddigits : HEXSTRING)
<b>Result Type</b>	: B_4
<b>Comments</b>	:
Description	
<p>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.</p> <p>The function of the OC_FirstDigi is to return the first (most significant) digit of the input parameter 'bcddigits'.</p> <p>for example:</p> <p>OC_FirstDigi('12345') = '0001'B,  OC_FirstDigi('012345678') = '0000'B.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_FnInc(fn : FN; inc : INTEGER)
<b>Result Type</b>	: FN
<b>Comments</b>	:
Description	
<p>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.</p> <pre> OC_FnInc(fn, inc) FN  fn; INTEGER inc; {   int  frmin;   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); } </pre>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_GetSCTimeStamp(timezone : TZONES)
<b>Result Type</b>	: TPSCTS
<b>Comments</b>	: TPSCTS is HEXSTRING[14]
Description	
<p>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 combination with the input parameter 'timezone' into a service center time stamp.</p> <p>Example:  1996 April 18, 15:32:46, timezone=4  OC_GetSCTimeStamp returns 69408151236440</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_IncTmsi(tmsi : TMSI_V; inc : OCTETSTRING)
<b>Result Type</b>	: TMSI_V
<b>Comments</b>	: the 'tmsi' is 4 OCTETs long
Description	
<p>OC_IncTmsi operation adds the two input parameters and returns the result. An overflow of addition is allowed.</p> <p>For example :</p> <p>OC_IncTmsi('33542140'O + '01'O) = '33542141'O;  OC_IncTmsi('21322140'O + '08'O) = '21322148'O.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_InRang(tx: INTEGER; maxret : INTEGER; m: INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>The operation returns TRUE if <math>(m \text{ DIV } (\text{maxret} * ((230 + \text{maxret} - 1) / \text{maxret})))</math> is inside the following interval:  <math>[0.8 - ((tx+1)/2) \text{ DIV } tx; 1.2 - ((tx+1)/2) \text{ DIV } tx]</math></p> <p>where / is integer division, DIV is float division, m, tx and maxret are input parameters of the operation.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_IntToOct(n : INTEGER; l: INTEGER)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_LeastBits(bstring : BITSTRING; lg : INTEGER)
<b>Result Type</b>	: BITSTRING
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_LengthOf(identity_field :MI)
<b>Result Type</b>	: INTEGER
<b>Comments</b>	:
Description	
OC_LengthOf operation returns the actual length of the 'identity_field', the unit of length is in OCTET.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_LengthOfBCDN(bcdn :BCDN)
<b>Result Type</b>	: INTEGER
<b>Comments</b>	:
Description	
OC_LengthOfBCDN operation returns the actual length of an IE of type BCDN 'bcdn', the unit of length is in OCTET.	
<b>Detailed Comments</b> :	

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

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

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



## 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	
<b>Operation Name</b> :	OC_ModifyBcap(bcap:BCAP; list_indicator:INTEGER)
<b>Result Type</b> :	BCAP
<b>Comments</b> :	
Description	
<p>Using the following lists</p> <pre> modem_list = ('00011'B, '00111'B) transparent_list = ('00'B, '10'B, '11'B) non_transparent_list ('01'B, '10'B, '11'B) </pre> <p>OC_ModifyBcap operation returns a bearer capability IE modified from the input IE according the following rule:</p> <ul style="list-style-type: none"> <li>– for 'list_indicator' =C_modemt_ce: <ul style="list-style-type: none"> <li>– copy the IE unchanged.</li> </ul> </li> <li>– for 'list_indicator' = C_modemt_Tlist: <ul style="list-style-type: none"> <li>– replace the 'ce' value with the list 'transparent_list'</li> </ul> </li> <li>– for 'list_indicator' = C_modemt_NTlist: <ul style="list-style-type: none"> <li>– replace the 'ce' value with the list 'non_transparent_list'</li> </ul> </li> <li>– for 'list_indicator' =C_modemLst_ce: <ul style="list-style-type: none"> <li>– replace the 'modemt' value with the list 'modem_list'.</li> </ul> </li> <li>– for 'list_indicator' = C_modemLst_Tlist: <ul style="list-style-type: none"> <li>– replace the 'modemt' value with the list 'modem_list',</li> <li>and replace the 'ce' value with the list 'transparent_list'</li> </ul> </li> <li>– for 'list_indicator' = C_modemLst_NTlist: <ul style="list-style-type: none"> <li>– replace the 'modemt' value with the list 'modem_list',</li> <li>and replace the 'ce' value with the list 'non_transparent_list'</li> </ul> </li> </ul>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OC_MostBits(bstring : BITSTRING; lg :INTEGER)
<b>Result Type</b> :	BITSTRING
<b>Comments</b> :	
Description	
<p>OC_MostBits operation returns the 'lg' most significant bits of the original 'bstring'.</p> <p>for example:</p> <pre> OC_LeastBits('110011000101010'B, 3) = '110'B, OC_LeastBits('110011000101010'B, 6) = '110011'B. </pre>	
<b>Detailed Comments</b> :	

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

*Continued on next page*

## 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}  
 }  
 then the operation returns TRUE otherwise FALSE.

Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition
<b>Operation Name</b> : OC_OeBit(bcddigits : HEXSTRING) <b>Result Type</b> : BITSTRING <b>Comments</b> : The input parameter 'bcddigits' is really BCD string (subset of HEXSTRING), the result is BITSTRING[1].
Description
<p>The function of the OC_OeBit is as the following:</p> <ol style="list-style-type: none"> <li>1. it returns '1'B, if the length of the 'bcddigits' is odd,</li> <li>2. it returns '0'B, if the length of the 'bcddigits' is even.</li> </ol> <p>for example:</p> <p>OC_OeBit('12583') = '1'B,  OC_OeBit('87259957') = '0'B.</p>
Detailed Comments :

Test Suite Operation Definition
<b>Operation Name</b> : OC_OctToInt(ostr: OCTETSTRING) <b>Result Type</b> : INTEGER <b>Comments</b> :
Description
OC_OctToInt converts the OCTETSTRING 'ostr' into INTEGER.
Detailed Comments :

Test Suite Operation Definition
<b>Operation Name</b> : OC_OctToInvokeIDType(o : OCTETSTRING) <b>Result Type</b> : InvokeIDType <b>Comments</b> :
Description
<p>OC_OctToInvokeIDType converts the OCTETSTRING 'o' into InvokeIDType, with the MSB of 'o' representing the negative value <math>-2^{\exp(n-1)}</math>, for example '80'O <math>\rightarrow</math> '10000000'B <math>\rightarrow</math> -128. The rest of the bits can code positive values up to <math>+2^{\exp(n-2)-1}</math>, for example '4F'O <math>\rightarrow</math> '01111111'B <math>\rightarrow</math> +127.</p> <p>for example:</p> <p>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.</p>
Detailed Comments :

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_OtherDigi(bcddigits : HEXSTRING)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	: 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	
<p>The function of the OC_OtherDigi is as the following:</p> <ol style="list-style-type: none"> <li>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;</li> <li>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.</li> </ol> <p>for example:</p> <p>OC_OtherDigi('12345') = '3254',  OC_OtherDigi('12345678') ='325476F8'.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_PosinSet(set: Components; comp: Component)
<b>Result Type</b>	: INTEGER
<b>Comments</b>	:
Description	
<p>The operation OC_PosinSet returns the position of component 'comp' within the SET 'set'.</p> <p>for example:</p> <p>if the set = { registerSSComponents, eraseSSComponents, activateSSComponents, deactivateSSComponents }</p> <p>OC_PosinSet(set, registerSSComponents) = 0,  OC_PosinSet(set, activateSSComponents) = 2.</p>	
<b>Detailed Comments</b> :	

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

*Continued on next page*

Test Suite Operation Definition
Description
<p>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.</p> <p>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.</p> <p>Since the number of RACH slots depends on the RACH being combined or not with dedicated channels, the parameter 'cmbn' is needed: TRUE --&gt; combined, FALSE--&gt; not combined.</p> <p>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.</p> <p>fn1' := fn1 mod 51 fn2' := fn2 mod 51</p> <p>CASE 1: cmbn is FALSE ('not combined')</p> <p>When 'not combined', all slots are RACH slots.</p> <p>1.1 mode=0 (sending paging message at fn1)</p> <p>The paging uses the numbered frames 6 – 9, 12 –19, 22–29, 32–39 and 42–49.</p> <p>1.1.1 If fn1 is not in the paging TDMA frame mapping, it leads testing to a test system error. IF (fn1' &lt; 6) OR (9 &lt; fn1' &lt; 12) OR (19 &lt; fn1' &lt; 22) OR (29 &lt; fn1' &lt; 32) OR (39 &lt; fn1' &lt; 42) OR (fn1' &gt; 49), A test system error! The calling test case shall re-run again. OTHERWISE</p> <p>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) &lt; fn2, OC_RachSlots := fn2 – (fn1 + 3) – 1 = fn2 – fn1 – 4,</p> <p>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 &lt;= (fn1 + 3), OC_RachSlots := fn2 –fn1 – 3 + 42432 –1 = fn2 –fn1 + 42428</p> <p>1.2 mode=1 (receiving channel request at fn1)</p> <p>The number of RACH slots is equal to the number of frames between fn1 and fn2</p> <p>1.2.1 IF fn1 &lt; fn2, OC_RachSlots := fn2 – fn1 – 1, 1.2.2 IF fn2 &lt;= fn1, OC_RachSlots := fn2 –fn1 + 42432 –1 = fn2 –fn1 + 42431</p> <p>CASE 2: cmbn is TRUE ('combined')</p> <p>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.</p> <p>2.1 mode=0 (sending paging message at fn1)</p> <p>The paging uses the numbered frames 6 – 9 and 12 –19.</p> <p>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' &lt; 4) OR (5 &lt; fn2' &lt; 14) OR (36 &lt; fn2' &lt; 45) OR (fn2' &gt; 46), OC_RachSlots := –9999 IF (fn1' &lt; 6) OR (9 &lt; fn1' &lt; 12) OR (fn1' &gt; 19), A test system error! The calling test case shall re-run again. OTHERWISE</p> <p>2.1.2 Calculation of the number 'c' multiframe 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.</p> <p>2.1.2.1 IF (fn1 + 3) &lt; fn2, c := fn2 / 51 – (fn1 + 3) / 51 2.1.2.2 IF fn2 &lt;= (fn1 + 3), c := fn2 / 51 – (fn1 + 3) / 51 + 42432 / 51 = fn2 / 51 – (fn1 + 3) / 51 + 832</p> <p>2.1.3 Calculation of the number of frames 'a' to be subtracted according to the position of fn1' within the multiframe IF (5 &lt; fn1' &lt; 9) , a := 2 IF (fn1' =9), a := 3 IF (11 &lt; fn1' &lt; 20), a := fn1' – 8</p> <p>2.2 mode=1 (receiving channel request at fn1)</p> <p>2.2.1 If fn1 or fn2 are not in the RACH TDMA frame mapping, it leads testing to fail. IF (fn2' &lt; 4) OR (5 &lt; fn2' &lt; 14) OR (36 &lt; fn2' &lt; 45) OR (fn2' &gt; 46) OR (fn1' &lt; 6) OR (9 &lt; fn1' &lt; 12) OR (fn1' &gt; 19), OC_RachSlots := –9999</p> <p>2.2.2 Calculation of the number 'c' multiframe between fn1 and fn2</p>



Test Suite Operation Definition
<b>Detailed Comments</b> : TC_26_2_1_1 uses mode=0. TC_26_2_1_2 uses mode=1.

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

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

## Test Suite Operation Definition

**Operation Name** : OC\_SaveAndProc(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,  $CARD\{ k | f(k) = n \} \leq 41$ )

Test Suite Operation Definition	
<b>Operation Name</b>	: OC_SaveAndProc3(val : BITSTRING; mode :INTEGER ; cnt : INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: This operation is used for storing and analysing the random reference.
Description	
<p>The function of this operation is defined as an pseudo C code:</p> <pre>#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&lt;6, i++)                 { for (j=i+1, j&lt;7, j++)                     if (buf[j] == buf[i])                         { n = n-1;                           break;                         }                 }             if (n&gt;=4) then                 return(TRUE)             else    return (FALSE);         } }</pre>	
<b>Detailed Comments</b>	<p>The function of this test suite operation is :</p> <ul style="list-style-type: none"><li>– 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.</li><li>– 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.</li></ul>

## 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[j].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	
<b>Detailed Comments</b> :	<p>2. The OC can save maximum 13 RQR values. In SAVE mode, idx is ranged between 1–9.</p> <p>3. For ex&lt;&gt;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).</p>

Test Suite Operation Definition	
<b>Operation Name</b> :	OC_StartTime(frmn : FN; t, i : INTEGER)
<b>Result Type</b> :	STRT
<b>Comments</b> :	
Description	
<p>OC_StartTime operation generates the STARTING TIME IE according to the input parameters.</p> <p>(* frmn is the current frame number, t is the "delay" in applying the new frequencies, i is the contents of the starting time IE. *)</p> <pre> 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); } </pre>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OC_SubOctet(src : OCTETSTRING; len :INTEGER)
<b>Result Type</b> :	OCTETSTRING
<b>Comments</b> :	
Description	
<p>OC_SubOctet(src, len) is the octetstring of length 'len' starting from the leftmost position of the source octetstring 'src'.</p> <p>For example : OC_SubOctet('123456789ABCDEF'O, 4) = '12345678'O</p>	
<b>Detailed Comments</b> :	

### 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]

*Continued on next page*

## 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)
        {
```

Continued from previous page

Test Suite Operation Definition
Detailed Comments :



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

*Continued on next page*

## Test Suite Operation Definition

### Description

OC\_SubchOfSacchh operation returns a logic channel identifier for SACCH 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)
        {
```

Test Suite Operation Definition
Detailed Comments :

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

*Continued on next page*

## 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)
        {
```

Continued from previous page

Test Suite Operation Definition
Detailed Comments :

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

*Continued on next page*

## 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;
```



Test Suite Operation Definition
Detailed Comments :

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

*Continued on next page*

## 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	
<b>Operation Name</b>	: OC_SubchOfSdcch8(subch: B_3; cell : CellID; inst : INTEGER)
<b>Result Type</b>	: LOGICCH
<b>Comments</b>	: offset is of type BITSTRING[3]

*Continued on next page*

## 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;
```

Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition
<b>Operation Name</b> : OM_2Msgs(ch : LOGICCH; pgg : PGG; mode : SENDINGMODE) <b>Result Type</b> : BOOLEAN <b>Comments</b> :
Description
<p>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:</p> <ul style="list-style-type: none"> <li>– send the first message on the paging subchannel indicated by the 'pgg' and 'ch';</li> <li>– if the 'mode' = C_NxtButOne, send the second message in the next but one paging sub block;</li> <li>– if the 'mode' = C_FmrAGB, send the second message in a former access grant block;</li> <li>– 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);</li> <li>– 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.</li> </ul>
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** :

Continued on next page



## 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, FACCH 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	
<b>Operation Name</b>	: OM_BmInfo(ch : LOGICCH; mode : B_8)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: mode is of type BITSTRING[8], imode is a part of the channel mode IE
Description	
OM_BmInfo operation checks whether the MS starts transmitting 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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_ChangeRFOf2Cells( cellid1 : CellID; bspwr1 : INTEGER; cellid2 : CellID; bspwr2 : INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p> <p>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.</p> <p>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 (<math>C1 &lt; 0</math>).</p> <p>This criterion is defined as:</p> $C1 = (A - \max(B, 0))$ <p>when</p> <p>A – Received Level Average – (RXLEV_ACCESS_MIN)  B – MS_TXPWR_MAX_CCH – P {non DCS 1800}  MS_TXPWR_MAX_CCH + POWEROFFSET – P {DCS 1800}</p> <p>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.</p> <p>All values are expressed in dBm.</p> <p>In most test cases MS_TXPWR_MAX_CCH and the POWER_OFFSET will be set at their minimum values thus <math>C1 = A</math> (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 <math>C1 &lt; 0</math> 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)</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_ChConf(bspwr: INTEGER; mspwr : INTEGER; acctype : BITSTRING; chmod : CHMOD; ta : TA; slot : SN; tsc : TSC; rf : FRQPARA; chcmbrn : 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)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:

*Continued on next page*

Test Suite Operation Definition
Description
<p>The operation sets the configuration of a basic physical channel according to the input parameters and map logic channel combination onto it:</p> <ul style="list-style-type: none"> <li>– bspwr: base station power level in dBu;</li> <li>– mspwr: mobile station power level in "power control level";</li> <li>– acttype: type of activation: <ul style="list-style-type: none"> <li>– '000'B activation for intra-cell channel change ----- immediate assignment;</li> <li>– '001'B activation for intra-cell channel change ----- assignment;</li> <li>– '010'B activation for inter-cell channel change ----- asynchronous handover;</li> <li>– '011'B activation for inter-cell channel change ----- synchronous handover;</li> <li>– '100'B activation for additional assignment;</li> </ul> <p>NOTE: the types defined above are all the same, no real difference</p> <li>– '101'B activation for receiving only;</li> <li>– chmod: channel mode;</li> <li>– ta: timing advance ----- receive timing ta bit periods in advance of the normal receive timing if the channel is a dedicated channel ;</li> <li>– slot: time slot;</li> <li>– tsc: Training sequence code for normal bursts;</li> <li>– rf: ARFCN or hopping parameters;</li> <li>– chcmnb: logic channel combination mapping to the physical channel;</li> <li>– td: timing difference between the cell and conceptual timing reference ----- to make 2 cells with different timebase;</li> <li>– fn: initial frame number offset to the timing base counter ----- to make 2 cells with different frame numbers;</li> <li>– babr number of blocks reserved for access grant</li> <li>– cch-con CCCH/SDCCHs configuration</li> <li>– bpm multiframe period for transmission of PAGING REQUEST</li> <li>– pgfil: paging filling contents;</li> <li>– dtxu: mobile station discontinuous transmission: <ul style="list-style-type: none"> <li>– '0'B mobile station discontinuous transmission is not applied;</li> <li>– '1'B mobile station discontinuous transmission is applied;</li> </ul> </li> <li>– dtxd: base station discontinuous transmission: <ul style="list-style-type: none"> <li>– '0'B base station discontinuous transmission is not applied;</li> <li>– '1'B base station discontinuous transmission is applied;</li> </ul> </li> <li>– cell: cell identifier;</li> <li>– lgch1: logic channel identifier for the channel FCCH;</li> <li>– lgch2: logic channel identifier for the channel SCH;</li> <li>– lgch3: logic channel identifier for the channel BCCH;</li> <li>– lgch4: logic channel identifier for the channel PCH;</li> <li>– lgch5: logic channel identifier for the channel AGCH;</li> <li>– lgch6: logic channel identifier for the channel RACH;</li> <li>– lgch7: logic channel identifier for the channel FACCH or SDCCH;</li> <li>– lgch8: logic channel identifier for the channel SACCH;</li> <li>– lgch9: logic channel identifier for the channel CBCH;</li> </li></ul> <p>For parameters lgch1 to lgch9 "dummy" in the actual parameter list means that the corresponding parameters are not used.</p> <p>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.</p> <p>Channel re-use whithiin OM_ChConf:</p> <p>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.</p> <p>Decode the 'chcmnb' (channel combination) parameter to determine the new channel type.</p> <p>If new channel = "C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined) or</p> <p>if new channel = "C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4" (combined + SMS) then re-use any existing control channel configuration with same CellID.</p> <p>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.</p> <p>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.</p> <p>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.</p>

Test Suite Operation Definition
Detailed Comments :

Test Suite Operation Definition
<b>Operation Name</b> : OM_ChMdModi(ch : LOGICCH; chmod: CHMOD) <b>Result Type</b> : BOOLEAN <b>Comments</b> :
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
<b>Operation Name</b> : OM_CphMdChg(ch : LOGICCH; cphmod: CPHMS; key : BITSTRING) <b>Result Type</b> : BOOLEAN <b>Comments</b> :
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
<b>Operation Name</b> : OM_CphMd(ch : LOGICCH; cphmod: CPHMS; key : BITSTRING) <b>Result Type</b> : BOOLEAN <b>Comments</b> :
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	
<b>Operation Name</b>	: OM_ComingFn(ch : LOGICCH)
<b>Result Type</b>	: FN
<b>Comments</b>	:
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'.	
<b>Detailed Comments</b> : 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	
<b>Operation Name</b>	: OM_Deactivate(ch1, ch2 : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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..	
<b>Detailed Comments</b> : 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	
<b>Operation Name</b> : OM_FHCHK(ch : LOGICCH; ca : CCHD; ma : MA; cd : CHD; t : INTEGER; fn : FN)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p> <p>If 't' = 0 or <math>32024 \leq 't' \leq 42431</math> the operation checks that the new frequencies starts "without delay".  If <math>0 &lt; 't' \leq 31000</math> the operation checks that the new frequencies starts "on" the frame number of <math>(X + t) \bmod 42432</math>, where <math>x = 51 * ((fn.t3 - fn.t2) \bmod 26) + fn.t3 + 1326 * fn.t1</math>.  If <math>31000 &lt; 't' &lt; 32024</math>, or '<math>t' &lt; 0</math> or '<math>t' &gt; 42431</math> then the test has been configured incorrectly and should be re-run with a permitted value for 't'.</p> <p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> : OM_FreeResource(ch : LOGICCH)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
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.	
<b>Detailed Comments</b> : 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	
<b>Operation Name</b> : OM_FreqDef(st : STRT; ma : MA; ch : LOGICCH; chd : CHD; ca : CCHD; frmn : FN)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p> <p>If <math>0 \leq (st - frmn) \bmod 42432 \leq 31623</math>, the indicated time is the next time when frame number mod 42432 is equal to st.  If <math>32024 \leq (st - frmn) \bmod 42432 \leq 42431</math>, the indicated time has already elapsed. After completely sending out the message containing the parameter starting time the tester starts frequency hopping.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_GetFNTolerance(chtype : CH_TDMA; time_tolerance, frame_number : INTEGER)
<b>Result Type</b>	: INTEGER
<b>Comments</b>	: 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	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_GetHoaccPara(ch : LOGICCH)
<b>Result Type</b>	: HOACC_PARA
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_GetL1Hd(ch : LOGICCH)
<b>Result Type</b>	: L1HD
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	



Test Suite Operation Definition	
<b>Operation Name</b>	: OM_GetTxFn(ch : LOGICCH)
<b>Result Type</b>	: FN
<b>Comments</b>	:
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).	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_LowerLayerFail(ch : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<ul style="list-style-type: none"> <li>– layer 1 failure, see GSM 05.08;</li> <li>– layer 2 failure, see GSM 04.06.</li> </ul>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_NextTxFn(ch : LOGICCH ; ft : INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
This primes the lower emulator to return the Frame Number ( modulus 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	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OM_NoL2Ack(i : INTEGER; ch: LOGICCH)
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>When the parameter i&gt;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 acknowledge the 'i'th occurrence of the L2 I frame which has the more data bit "M" = 0 on the channel 'ch'.</p> <p>The layer 2 emulator resumes normal operation when</p> <ul style="list-style-type: none"> <li>– either the TSO is called again with i = 0 on the same 'ch',</li> <li>– or a data link SABM message is received on the 'ch'.</li> </ul>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OM_NotAckSetup(ch : LOGICCH)
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OM_NoUAforDISC(ch : LOGICCH)
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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</p> <ul style="list-style-type: none"> <li>– does not respond with a UA,</li> <li>– remains in the multiple-frame established state,</li> <li>– indicates that the DISC has been received (by means of subsequent DL_RELEASE_INDICATION ASPs).</li> </ul> <p>Then the TSO returns TRUE.</p>	
<b>Detailed Comments</b> : The TSO is called in TC_26_6_12_2 and TC_26_6_12_4.	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_PgFill(cellid : CellID ; msg : PG1_RQ_PDU)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: 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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_Reactivate(ch1, ch2 : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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).	
<b>Detailed Comments</b> : 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	
<b>Operation Name</b>	: OM_ReturnFn(ch : LOGICCH)
<b>Result Type</b>	: FN
<b>Comments</b>	:
Description	
OM_ReturnFn operation returns the frame number (FN modulo 42432) on which the last L3 message was sent on logic channel 'ch'.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_ResumUAforDISC(ch : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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_ResumUAforDISC 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.	
<b>Detailed Comments</b> : The TSO is called in TC_26_6_12_2 and TC_26_6_12_4.	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_SendSMSCBWhilePaging(ch : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: The result returned by the operation is not used.
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_SendNextOn(ch : LOGICCH; fn : FN)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_SendNextOnHO(ch : LOGICCH; cnt : INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: Used in non-synchronised handover tests
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_StartMsrReport(ch : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: The result returned by the operation is not used.
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_StopAllBCCH(cell1, cell2, cell3, cell4, cell5, cell6, cell7, cell8 : CellID)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: The result returned by the operation is not used.
Description	
<p>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.</p> <p>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.</p> <p>The TSO is called in TC_26_3_3.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_StopCell(cell : CellID)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: The result returned by the operation is not used.
Description	
<p>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.</p> <p>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.</p> <p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OM_StopMsrReport(ch : LOGICCH)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	: The result returned by the operation is not used.
Description	
<p>The operation stops the reporting of received MEASUREMENT REPORT message to layer 3 emulator, after measurement report stops it returns with value TRUE.</p> <p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OO_ACMIncCHK(para : IA5String)
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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.</p> <p>The value of ACM can be read either via MMI or by removing the SIM and using SIM reader.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OO_ACMReading
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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.</p> <p>The value of ACM can be read either via MMI or by removing the SIM and using SIM reader.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OO_ACMSetting
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> :	OO_AddPwrAmp
<b>Result Type</b> :	BOOLEAN
<b>Comments</b> :	
Description	
<p>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.</p> <p>After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_AltIndCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CalledNumCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CalledPtyNumCHK(num : CDPN)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckAllSMPresentBut4th
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckCBSMReceived(NumbOfIA5chara: INTEGER; msg:SMSCBpack)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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</p> <p>TRUE: if the CBSM has been correctly received,</p> <p>FALSE: if non or an incorrect CBSM has been received.</p> <p>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'.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckMCEFOOnSIM
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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 succeeds the operation returns TRUE, FALSE otherwise.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckMCEFOOnSIMUnset
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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 succeeds the operation returns TRUE, FALSE otherwise.</p>	
<b>Detailed Comments</b> :	



Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckMessageDisplayed(NumbOfIA5chara:INTEGER; msg:OCTETSTRING)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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</p> <p>TRUE: if the MS indicates SM reception (and displays correct message),</p> <p>FALSE: if the MS does not indicate SM reception (or displays incorrect message).</p> <p>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'.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_CheckUssdStringDisplayed(strg: IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p> <p>TRUE: MS displays the correct Ussd String.</p> <p>FALSE: MS does not display the correct Ussd String.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_ConnectSIMSimulator
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p> <p>For the contents of the SIM simulator the operator refers to the initial conditions of the test case in GSM 11.10-1.</p> <p>After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_DepressEndKey
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_DialCalledNum
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_DisplaySMAndSendReplySM(n, NumOfIA5chara: INTEGER; msg:OCTETSTRING)
<b>Result Type</b>	: OCTETSTRING
<b>Comments</b>	:
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 'NumOfIA5chara' indicates the number of IA5 characters in the 'msg'.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_DTMFIndCHK(character : IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_EmptyMessageStorage
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_EnterPswd(pswd : IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_HookOff
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_IFsetup_Telephony
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> : 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 triggered, 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, or the MS configuration in such a way that the MS, when triggered, 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, or the MS configuration in such a way that the MS, when triggered, is able to initiate the call for the BS5x service 'srv' 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.

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 triggered, 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	
<b>Operation Name</b> : OO_IFsetup_TS6x_MO(srv : SERVICES; ur : B_4; ce : B_2; rate : IA5String)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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 triggered, 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.</p> <p>This TSO is used in MO call test cases except TC_11_2, where this TSO is call for single-numbering scheme MT testing.</p> <p>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.</p> <p>The possible values are:</p> <p>1) srv ----- basic service</p> <ul style="list-style-type: none"> <li>- C_AltSpchFax        Teleservice 61, Alternatie Speech and Facsimile group 3</li> <li>- C_AutoFax            Teleservice 62, Automatic Facsimile group 3</li> </ul> <p>2) ur ----- user rate</p> <ul style="list-style-type: none"> <li>- '0011'B              2400 bit/s</li> <li>- '0100'B              4800 bit/s</li> <li>- '0101'B              9600 bit/s</li> </ul> <p>3) ce ----- connection element</p> <ul style="list-style-type: none"> <li>- '00'B                transparent</li> <li>- '01'B                non transparent</li> </ul> <p>4) rate ----- channel rate</p> <ul style="list-style-type: none"> <li>- C_Full                full rate channel</li> <li>- C_Half                half rate channel</li> </ul>	
<b>Detailed Comments</b> : used for TS61 and TS62	

Test Suite Operation Definition	
<b>Operation Name</b> : OO_IFsetup_BS2x_MT(srv : SERVICES; itc : B_3)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p> <p>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.</p>	
<b>Detailed Comments</b> : Used for BS21, BS22, BS24, BS25, BS26	



Test Suite Operation Definition	
<b>Operation Name</b> : OO_IFsetup_BS3x_MT(srv : SERVICES; itc, sacp : B_3)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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 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.</p> <p>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.</p>	
<b>Detailed Comments</b> : Used for BS31, BS32, BS33, BS34	

Test Suite Operation Definition	
<b>Operation Name</b> : OO_IFsetup_BS61orBS81_MT(srv : SERVICES; ur : B_4; sa : B_1)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p> <p>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.</p>	
<b>Detailed Comments</b> : used for BS61 and BS81	

Test Suite Operation Definition	
<b>Operation Name</b> : OO_IFsetup_TS6x_MT(srv : SERVICES; ur : B_4)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p> <p>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.</p>	
<b>Detailed Comments</b> : 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	
<b>Operation Name</b> : OO_InitCall(srv : SERVICES)	
<b>Result Type</b> : BOOLEAN	
<b>Comments</b> :	
Description	
<p>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.</p>	
<p>The possible service values include (see also test suite constant declarations):</p>	
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
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b> : OO_InitNonCallSS <b>Result Type</b> : BOOLEAN <b>Comments</b> :	
Description	
<p>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.</p> <p>After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.</p>	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_InitSS(action: IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_InServiceCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_Key
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_MptyCall
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_MSSetupStoreClass1SMInMEMemory
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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).</p> <p>After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PLMNsCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PLMNselModeAuto
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PLMNselModeMan
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PowerUp
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PowerDown
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_PressKeyWhenInService
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_RecallAndDisplaySM(NumbOfIA5chara: INTEGER; msg: OCTETSTRING)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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'.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_RemoveOneSM
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_RemvPwrAmp
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_RFoutputCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SelPLMN(par_plmn:OCTETSTRING)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SendMOShortMessage
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p> <p>The operation waits for the operator to acknowledge the request which may be done before or after sending the MO Short Message, and then returns the value TRUE.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SendSMSCOMMANDDel
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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 previously submitted SM and then to inform the test system. Then, the operation returns with value TRUE.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SendSMSCOMMANDEnq
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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 previously submitted SM and then to inform the test system. Then, the operation returns with value TRUE.</p>	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SetRefuseCall
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p>	
<b>Detailed Comments</b>	:



Test Suite Operation Definition	
<b>Operation Name</b>	: OO_ShortKeyDepr(ch : IA5String)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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 acknowledge the request which may be done before or after generating the DTMF tone, and then returns the value TRUE.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIMIns
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIM2Ins
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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 default values(SIM Card 1): IMSI= '001011234' HPLMN_search_period=6min.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIM3Ins
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIMRmv
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIMSimulAttIndOK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SIMSimulAttIndMemProblem
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SSresultCHK(svc : INTEGER)
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SwitchOn
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_SwitchOff
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_TCHThroConnCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_TermCall
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b> :	

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_TguardTimeOut
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
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.	
<b>Detailed Comments</b>	:

Test Suite Operation Definition	
<b>Operation Name</b>	: OO_ToneStopCHK
<b>Result Type</b>	: BOOLEAN
<b>Comments</b>	:
Description	
<p>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.</p> <p>Definition of "tone generation":</p> <p>–During MO call: MS generates alerting tone/presents inband information sent by the network.</p> <p>–During MT call: MS generates ringing tone.</p>	
<b>Detailed Comments</b>	:

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

Continued on next page

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

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

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



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 to 1. 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

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

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

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

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

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

Test Suite Parameter Declarations			
Parameter Name	Type	PICS/PIXIT Ref	Comments
TSPX_BS_33_its1	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_its	BOOLEAN	PIXIT MS	more than one Information Transfer Capability value supported by BS33 (sync data 4800bits/s). default value : FALSE, only one its
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_its2	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_its 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

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



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-Transparent 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

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 one 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

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

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

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

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_CKSNDf	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

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	PIXIT 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

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



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

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: 01011110010010101100 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_PwrlvIA	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvIB	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvIC	INTEGER	PIXIT TC	power level, value between 2 to 15 GSM 05.05, 4.11
TSPX_PwrlvID	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

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

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 : 734,741,754,759,762,766,7 67,773,775,779,782,791,79 8,829,832,844
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

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 chosen 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	Chosen arbitrarily from cell allocation B for GSM HO cases, but not BCCH carrier!
TSPX_TCHcarrierB2_hod	INTEGER	PIXIT TC	Chosen arbitrarily 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: $0 < (2 * TSPX_k + TSPX_y) \text{ MOD } 256 < 60$ .
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.

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 explanation).
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_i1P ara<=TSPX_nPara
TSPX_i2Para	INTEGER	PIXIT TC	for TC_26_6_1_2 0<TSPX_i2Para<=(TSPX_kP ara - 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_i4 Para<=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

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

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



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

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

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

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

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

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

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

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



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 related 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

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

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

Continued on next page



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	'8DEA0DF4CC6C4AFAB1000000000000'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	'8A0A1CFD3EF4610E2FFF0A000000000'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

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 000000000000'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	'00000000000002000020 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

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_cksnokey	BITSTRING	'111'B	No key available
C_E_default	INTEGER	63	Default field strength
C_E_neighbourdefault	INTEGER	53	Default field strength of neighbouring cells.
C_E_suitable	INTEGER	45	Field strength of a suitable cell
C_E_otsuitable	INTEGER	-10	Field strength of a not suitable cell for reselection (C1 < 0)
C_E_otsuitable_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

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	'0000000000000020000008000080000'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	'8DEA0DF4CC6C4AFAFB1000000000000'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

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_flist_e_408	OCTETSTRING	'8A0A1CFD3EF4610E2FFF FA0000'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	'89EA037F433C7B042BFE BFEC10000000'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	'0002080000007F0200000 08000080000'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	'0002080000007F0200000 08000080000'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

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_BPM_2	B_3	'010'B	BPM value 2, 4 multiframe
C_BPM_3	B_3	'011'B	BPM value 3, 5 multiframe
C_BPM_7	B_3	'111'B	BPM value 7, 9 multiframe
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)

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

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



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

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 1st 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

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

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

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

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

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_SACCHC43_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_SACCHC43_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

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



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

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

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

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

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

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



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

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

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

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

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

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

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

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_CCH"	FCCH_SCH_BCCH_CCH H type channel



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

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)

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_Packet9600	IA5String	"C_Packet9600"	packet 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_l	INTEGER	1	l 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_MaxPwrLvID	INTEGER	15	Max power level for MS DCS
C_MaxPwrLvIG	INTEGER	19	Max power level for MS GSM
C_MsPwrLvl_8	INTEGER	8	MS Tx power level 8
C_rc_conditlError	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

Test Suite Constant Declarations			
Constant Name	Type	Value	Comments
C_noRestablishment	B_1	'1'B	No reestablishment 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_alterate	B_8	'11010001'B	Bcap repeat indicator for alterate (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

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)

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

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_Asynchrous	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

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_nottransparent	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 CONFIRM 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

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_ChMod	CHMOD	'00001'B	to hold channel mode IE
TCV_ChModb	CHMOD		to hold channel mode IE for second mode in dual mode services
TCV_Tchtype	CH_TDMA		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		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_CPDDataRetx	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

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

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_Rqr	RQR	FALSE	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		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_sysinfo5	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

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_sysinfo6	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.

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_ia_ts	BITSTRING	"dummy"	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_Invkld	OCTETSTRING		to hold SS transaction ID
TCV_Invkld0	OCTETSTRING		to hold SS transaction ID
TCV_Invkld1	OCTETSTRING		to hold SS transaction ID
TCV_Comp	Components		to hold SS Components
TCV_Strt	STRT		to hold starting time
TCV_CBch	LOGICCH		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



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_SMcmtns	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

Continued from previous page

Test Case Variable Declarations			
Variable Name	Type	Value	Comments
TCV_nc	B_3	0	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		To hold number of Measurement reports.
TCV_CellPresent	INTEGER		To indicate if the unsigned results in FnArith are positive
TCV_Positive	BOOLEAN		
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	
<b>Detailed Comments</b> : 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	5000 300 C_release_time	ms	general purpose delay timer
T_dly1		ms	general purpose delay timer
T_dly2		ms	general purpose delay timer
T_dlyAss		ms	AssCmd timer, 1)
T_guard		s	guard timer
T_release		s	release timer
<b>Detailed Comments</b> : 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		
<b>ASP Name</b> : DL_EstRq (DL_ESTABLISH_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstIn (DL_ESTABLISH_INDICATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstInCmsRq (DL_ESTABLISH_INDICATION_CM_SERVICE_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstInLupRq (DL_ESTABLISH_INDICATION_LOCATION_UPDATING_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstInImsidIn (DL_ESTABLISH_INDICATION_IMSI_DETACH_INDICATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstInPgRes (DL_ESTABLISH_INDICATION_PAGING_RESPONSE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstInCmreRq (DL_ESTABLISH_INDICATION_CM_REESTABLISHMENT_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_EstCo (DL_ESTABLISH_CONFIRM) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_RelIn (DL_RELEASE_INDICATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> : The outstanding indicator indicates whether or not there are outstanding acknowledgements or unsolved DL_DATA_REQUEST primitives.		



ASP Type Definition		
<b>ASP Name</b> : DL_RacInChRq (DL_RANDOM_ACCESS_INDICATION_CHANNEL_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_RacInHoacc (DL_RADOM_ACCESS_INDICATION_HANDOVER_ACCESS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlmass (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlImmass_sp (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlImmassx (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_EXTENDED) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlImmassx_sp (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_EXTENDED) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlImmassRej (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_REJECT)		
<b>PCO Type</b> : SAP0_3		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqlImmassRej_sp (DL_UNIT_DATA_REQUEST_IMMEDIATE_ASSIGNMENT_REJECT)		
<b>PCO Type</b> : SAP0_3		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatIn		
<b>PCO Type</b> : SAP0_3		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatInMsrRpt (DL_DATA_INDICATION_MEASUREMENT_REPORT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> : The ASPs are continuously received during the testing.		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSMSCBData (DL_UNIT_DATA_REQUEST_SMSCB_DATA) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqPg1Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE1) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqPg2Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE2) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqPg3Rq (DL_UNIT_DATA_REQUEST_PAGING_REQUEST_TYPE3) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSchinfo (DL_UNIT_DATA_REQUEST_SYNCHRONIZATION_CHANNEL_INFORMATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo1 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo1_nh (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE1) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo2 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo2bis (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2bis) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo2ter (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE2ter) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo3 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE3) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo4 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE4) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo5 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo5bis (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5bis) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		



ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo5ter (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE5ter) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo6 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE6) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo7 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE7) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatRqSysinfo8 (DL_UNIT_DATA_REQUEST_SYSTEM_INFORMATION_TYPE8) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_UdatInClmChn (DL_UdatINDICATION_CLASSMARK_CHANGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqAssCmd (DL_DATA_REQUEST_ASSIGNMENT_COMMAND) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInAssCom (DL_DATA_INDICATION_ASSIGNMENT_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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 logic_ch msg fn	SAPID LOGICCH ASS_COM_PDU FN	0 DCCH  frame number of the first frame carrying the message
<b>Detailed Comments</b> : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the ASSIGNMENT COMPLETE message.		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInAssfl (DL_DATA_INDICATION_ASSIGNMENT_FAILURE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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 logic_ch msg fn	SAPID LOGICCH ASSFL_PDU FN	0 DCCH (old channel)  frame number of the first frame carrying the message
<b>Detailed Comments</b> : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the ASSIGNMEN FAILURE message.		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCmsRq (DL_DATA_INDICATION_CM_SERVICE_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : The ASP is used to indicate the receipt of the MM CM SERVICE REQUEST message (L2 -> L3).		
Parameter Name	Parameter Type	Comments
sapi logic_ch msg fn	SAPID LOGICCH CMS_RQ_PDU FN	0 DCCH, SACCH CM SERVICE REQUEST frame number of the first frame carrying the message
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqChmmo (DL_DATA_REQUEST_CHANNEL_MODE_MODIFY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInChmmoAck (DL_DATA_INDICATION_CHANNEL_MODE_MODIFY_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqChRel (DL_DATA_REQUEST_CHANNEL_RELEASE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqChRelErr (DL_DATA_REQUEST_CHANNEL_RELEASE_ERROR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCphmCmd (DL_DATA_REQUEST_CIPHERING_MODE_COMMAND) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCphmCmdErr (DL_DATA_REQUEST_CIPHERING_MODE_COMMAND_ERROR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCphmCom (DL_DATA_INDICATION_CIPHERING_MODE_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInClmChn (DL_DAT_INDICATION_CLASSMARK_CHANGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqClmEnq (DL_DATA_REQUEST_CLASSMARK_ENQUIRY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqFrqre (DL_DATA_REQUEST_FREQUENCY_REDEFINITION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqHoCmd (DL_DATA_REQUEST_HANDOVER_COMMAND) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInHoCom (DL_DATA_INDICATION_HANDOVER_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> : The ASP is a result of the ASP DL_RESUME_REQUEST of the SUT sending the HANDOVER COMPLETE message.		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInHofl (DL_DATA_INDICATION_HANDOVER_FAILURE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> : The ASP is a result of the ASP DL_RECONNECT_REQUEST of the SUT sending the HANDOVER FAILURE message.		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqPhyinfo (DL_DATA_REQUEST_PHYSICAL_INFORMATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInRrst (DL_DATA_INDICATION_RR_STATUS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		



ASP Type Definition		
<b>ASP Name</b> : DL_DatRqAuthRej (DL_DATA_REQUEST_AUTHENTICATION_REJECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqAuthRq (DL_DATA_REQUEST_AUTHENTICATION_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInAuthRes (DL_DATA_INDICATION_AUTHENTICATION_RESPONSE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCmsAcP (DL_DATA_REQUEST_CM_SERVICE_ACCEPT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCmsRej (DL_DATA_REQUEST_CM_SERVICE_REJECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqAbtr (DL_DATA_REQUEST_ABORT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqIdRq (DL_DATA_REQUEST_IDENTITY_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatIndRes (DL_DATA_INDICATION_IDENTIFY_RESPONSE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqLupAcp (DL_DATA_REQUEST_LOCATION_UPDATING_ACCEPT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqLupAcErr (DL_DATA_REQUEST_LOCATION_UPDATING_ACCEPT_ERR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqLupRej (DL_DATA_REQUEST_LOCATION_UPDATING_REJECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInMmst (DL_DATA_INDICATION_MM_STATUS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqTmsireCmd (DL_DATA_REQUEST_TMSI_REALLOCATION_COMMAND) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInTmsireCom (DL_DATA_INDICATION_TMSI_REALLOCATION_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqAlert (DL_DATA_REQUEST_ALERTING) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInAlert (DL_DATA_INDICATION_ALERTING) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCallCo (DL_DATA_INDICATION_CALL_CONFIRMED) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCallProc (DL_DATA_REQUEST_CALL_PROCEEDING) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqConn (DL_DATA_REQUEST_CONNECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqConnErr (DL_DATA_REQUEST_CONNECT_ERR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInConn (DL_DATA_INDICATION_CONNECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqConnAck (DL_DATA_REQUEST_CONNECT_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInConnAck (DL_DATA_INDICATION_CONNECT_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqDisc (DL_DATA_REQUEST_DISCONNECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		



ASP Type Definition		
<b>ASP Name</b> : DL_DatRqDiscErr (DL_DATA_REQUEST_DISCONNECT_ERR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInDisc (DL_DATA_INDICATION_DISCONNECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInESetup (DL_DATA_INDICATION_EMERGENCY_SETUP) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqFac (DL_DATA_REQUEST_FACILITY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInFac (DL_DATA_INDICATION_FACILITY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInHold (DL_DATA_INDICATION_HOLD) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqHoldAck (DL_DATA_REQUEST_HOLD_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqModify (DL_DATA_REQUEST_MODIFY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInModify (DL_DATA_INDICATION_MODIFY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqModifyCom (DL_DATA_REQUEST_MODIFY_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqModifyRej (DL_DATA_REQUEST_MODIFY_REJECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInModifyRej (DL_DATA_INDICATION_MODIFY_REJECT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqNotify (DL_DATA_REQUEST_NOTIFY) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqProg (DL_DATA_REQUEST_PROGRESS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqRegister (DL_DATA_REQUEST_REGISTER) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInRegister (DL_DATA_INDICATION_REGISTER) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqRel (DL_DATA_REQUEST_RELEASE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInRel (DL_DATA_INDICATION_RELEASE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqRelCmp (DL_DATA_REQUEST_RELEASE_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInRelCmp (DL_DATA_INDICATION_RELEASE_COMPLETE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqSetup (DL_DATA_REQUEST_SETUP) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInSetup (DL_DATA_INDICATION_SETUP) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInStartDtmf (DL_DATA_INDICATION_START_DTMF) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqStartDtmfAck (DL_DATA_REQUEST_START_DTMF_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		



ASP Type Definition		
<b>ASP Name</b> : DL_DatRqStartDtmfRej (DL_DATA_REQUEST_START_DTMF_REJCT) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInStopDtmf (DL_DATA_INDICATION_STOP_DTMF) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqStopDtmfAck (DL_DATA_REQUEST_STOP_DTMF_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCcst (DL_DATA_REQUEST_CC_STATUS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCcst (DL_DATA_INDICATION_CC_STATUS) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCcstEnq (DL_DATA_REQUEST_CC_STATUS_ENQ) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqUndefCC (DL_DATA_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqUndefMM (DL_DATA_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqUndefRR (DL_DATA_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqUnknown (DL_DATA_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCpData (DL_DATA_INDICATION_CP_DATA) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCpData (DL_DATA_REQUEST_CP_DATA) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInCpDataAck (DL_DATA_INDICATION_CPDATA_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCpDataAck (DL_DATA_REQUEST_CPDATA_ACKNOWLEDGE) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatRqCpError (DL_DATA_REQUEST_CP_ERROR) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : MDL_ReIRq (MDL_RELEASE_REQUEST) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : The ASP is used to request the local end termination 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
<b>Detailed Comments</b> :		

ASP Type Definition		
<b>ASP Name</b> : DL_DatInImsidIn (DL_DATA_INDICATION_IMSI_DETACH_INDICATION) <b>PCO Type</b> : SAP0_3 <b>Comments</b> : 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
<b>Detailed Comments</b> :		

## 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			
<b>PDU Name</b> : ASS_COM_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : ASSFL_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : CHMMO_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CHMMO_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CH_REL_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CH_REL_PDU_ERR <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CH_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CPHM_CMD_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CPHM_CMD_PDU_ERR <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CPHM_COM_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CLM_CHN_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		additional mobile station classmark information C OCTETSTRING [14]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CLM_ENQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : FRQRE_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : HOACC_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

## 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]

Continued on next page

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			
<b>PDU Name</b> : HO_COM_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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			
<b>PDU Name</b> : HOFL_PDU			
<b>PCO Type</b> : SAP0_3			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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]
<b>Detailed Comments</b> :			

## 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			
<b>PDU Name</b> : MSR_RPT_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : PG1_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 '2B2B...'O
<b>Detailed Comments</b> : 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			
<b>PDU Name</b> : PG_RES_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	CPHKS		ciphering key sequence number M BITSTRING [4]
msclm	MSCLM		mobile station classmark information M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : PART_REL_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : PHYINFO_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : RREST_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : SCHINFO_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : SCHINFO_PDU has a total length of 25 bits (GSM 04.04).			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO1_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : 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			
<b>PDU Name</b> : SYSINFO4_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The message has a total length of 23 octets.			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO5_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO5bis_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO5ter_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : SYSINFO6_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO7_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The message has a total length of 23 octets.			

PDU Type Definition			
<b>PDU Name</b> : SYSINFO8_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : The message has a total length of 23 octets.			

PDU Type Definition			
<b>PDU Name</b> : ABRT_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : AUTH_REJ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : AUTH_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	CPHKS		ciphering key sequence number M BITSTRING [4]
rand	RAND		authentication parameter rand M BITSTRING [128]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : AUTH_RES_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CMRE_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	CPHKS		ciphering key sequence number M BITSTRING [4]
msclm	MSCLM		mobile station classmark M OCTETSTRING [4]
mi	MI		mobility identity M OCTETSTRING [2..9]
lai	LAI		location area identification C OCTETSTRING [6]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CMS_ACP_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CMS_REJ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CMS_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	CPHKS		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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : ID_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : ID_RES_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : IMSID_IN_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : LUP_ACP_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : LUP_ACP_PDU_ERR <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : LUP_REJ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 cause M OCTETSTRING [1]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : LUP_RQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	CPHKS		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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : MMST_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : TMSIRE_CMD_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : TMSIRE_COM_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : ALERT_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CALL_CO_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CALL_PROC_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CONN_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
cnm	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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CONN_PDU_ERR <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CONN_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : DISC_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : DISC_PDU_ERR <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : ESETUP_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : FAC_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : HOLD_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : HOLD_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : MODIFY_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : MODIFY_COM_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : MODIFY_REJ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : NOTIFY_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : REGISTER_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : PROG_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : REL_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

## 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : SMSCB_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : START_DTMF_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			



PDU Type Definition			
<b>PDU Name</b> : START_DTMF_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : START_DTMF_REJ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CCST_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CCST_ENQ_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : STOP_DTMF_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : STOP_DTMF_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CP_DATA_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> : 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			
<b>PDU Name</b> : CPDATA_ACK_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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'
<b>Detailed Comments</b> :			

PDU Type Definition			
<b>PDU Name</b> : CPERR_PDU <b>PCO Type</b> : SAP0_3 <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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]
<b>Detailed Comments</b> : 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
dplx	'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; dplx:m: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
dplx	–		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; dplx: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
dplx	dplx		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
dplx	'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
nbsb	nbsb		number of stop bits
nb	'0'B		In band negotiation not possible
ndb	ndb		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
dplx	'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
dplx	'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		
nbsb	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			
<b>Constraint Name</b> : Bcap_02 <b>Structured Type</b> : BCAP <b>Derivation Path</b> : Bcap_Speech_MT. <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
dplx	—		
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 requirement
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	–		
u1l2	–		
Detailed Comments :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Blocktype_01(seqnum: BITSTRING; lb: BITSTRING) <b>Structured Type</b> : BLOCKTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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			
<b>Constraint Name</b> : BcchFreqLst_Omit <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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			
<b>Constraint Name</b> : BcchFreqLst_01 <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'8020080200800000000008 000080200'O		ARFCN: 10, 20, 40, 80, 90, 100, 110, 120
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_02 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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	'0401004010000000000000 000004000'O		ARFCN: 15, 85, 95, 105, 115, 122
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_03 <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'04412C168E440000000000 000000000'O		ARFCN: 520, 600, 700, 780, 810, 870
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_04			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'09412C168E440000000000000000'O		ARFCN: 530, 610, 710, 790, 820, 880
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_05			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'00000100100003000000040000000040'O		ARFCNs: 7, 39, 65, 66, 85, 97, 124
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_06			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 8, 40, 67, 68, 86, 98, 123
rfl	'0000020020000C00000008000000080'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_07			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 9, 41, 69, 70, 87, 99, 122
rfl	'00000400400030000001000000100'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_08			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 10, 42, 71, 72, 88, 100, 121
rfl	'000008008000C00000002000000200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_09			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 11, 43, 73, 74, 89, 101, 120
rfl	'800010010003000000004000000400'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_10			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 12, 44, 75, 76, 90, 102, 119
rfl	'40002002000C00000008000000800'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_11			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 13, 45, 77, 78, 91, 103, 118
rfl	'200040040030000000010000001000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_12			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCN: 124
rfl	'000000000000000000000000 000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_13			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_14			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_15			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_16			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_17			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'062F6869EF53B800000000 000000000'O		ARFCNs: 524, 584, 618, 710, 713, 835, 880
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_18			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_19			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'072F5FE900D5480000000000000000'O		ARFCNs: 526, 586, 622, 714, 715, 836, 879
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_20 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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	'00000000000000000000000000000000 000000000'O		no ARFCNs
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_21 <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		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
rfl	'000000000000000000000000008A EBAFFBFFA'O		
<b>Detailed Comments</b> :			

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_22

**Structured Type** : NCD

**Derivation Path** : BcchFreqLst\_01.

### Encoding Variation :

<b>Comments</b>	: 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	'000000000000000000082000082002'O		ARFCNs: 2, 14, 20, 38, 44

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_24

**Structured Type** : NCD

**Derivation Path** :

### Encoding Variation :

<b>Comments</b>	: 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	'000000000000000000000000 000000000'O		no channel

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_25

**Structured Type** : NCD

**Derivation Path :**

### Encoding Variation :

<b>Comments</b>	: 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	'000000000000000000000000 00000000'O		no channel

**Detailed Comments :**

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: BcchFreqLst_26
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**Structured Type** : NCD

Derivation Path :

**Encoding Variation :**

<b>Comments</b>	: 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	'F4000000000000000000000000 000000000'O		ARFCN 500

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_27

**Structured Type** : NCD

Derivation Path :

### Encoding Variation :

<b>Comments</b>	: 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			
<b>Constraint Name</b> : BcchFreqLst_28			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		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
rfl	'000000000000000000008A EBAFFBFFA'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_29			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'99E0A472E1000000000000 000000000'O		
<b>Detailed Comments</b> :			

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: BcchFreqLst_30
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**Structured Type** : NCD

Derivation Path :

**Encoding Variation :**

<b>Comments</b>	: 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	'20000000000000000000 00000000'O		ARFCN 0, 800

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_31

**Structured Type** : NCD

Derivation Path :

### Encoding Variation :

<b>Comments</b>	: 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	'1473FF8AFC000000000000 000000000'O		ARFCN 20, 514, 530, 549, 762

**Detailed Comments :**

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_32			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_33			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 partial BA   ARFCN 2, 14, 20, 38, 44
extind	'1'B		
baind	'1'B		
rfl4	'0000'B		
rfl	'000000000000000000082 000082002'O		
<b>Detailed Comments</b> :			

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: BcchFreqLst_34
------------------------	------------------

**Structured Type** : NCD

**Derivation Path :**

### Encoding Variation :

<b>Comments</b>	: 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	'5AE5B40000000000000000 00000000'O		ARFCN 549, 602, 810

**Detailed Comments :**

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: BcchFreqLst_34d
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**Structured Type** : NCD

**Derivation Path** :

### Encoding Variation :

<b>Comments</b>	: 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	'99B4800000000000000000 00000000'O		ARFCN 514, 665

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_35

**Structured Type** : NCD

Derivation Path : BcchFreqLst\_01.

### Encoding Variation :

<b>Comments</b>	: 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	'000000000000000000082082082'O		ARFCNs: 2, 8, 14, 20, 26, 32, 38, 44

**Detailed Comments :**

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_36			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> : BcchFreqLst_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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,
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_37			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCNs: 2, 6, 8
rfl	'00000000000000000000000000000000A2'O		
<b>Detailed Comments</b> : only used in TC_26_6_3_5			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_38			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'CBA3BEB89A9048C00000 0000000000'O		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_39			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		variable bit map part of the BA
extind	'1'B		
baind	'1'B		
rfl4	'1111'B		
rfl	'E28000000010000014500 000000000'O		ARFCN 965, 1000, 0, 2, 6, 8
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_40			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'5B9458000000000000000000 000000000'O		ARFCN 695, 715, 800
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_41			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Neighbour cells description for SYSTEM INFORMATION 5 BIS for GSM900.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		512 range format partial BA
extind	'1'B		
baind	'1'B		
rfl4	'1001'B		
rfl	'097BBA32AE888C000000 0000000000'O		ARFCN 530, 595, 965, 1000, 715, 815, 0
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_42			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Neighbour cells description for SYSTEM INFORMATION 5 for GSM900.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		512 range format partial BA
extind	'1'B		
baind	'1'B		
rfl4	'1000'B		ARFCN 500, 530, 595, 965, 715, 815
rfl	'FA0787AE4B88000000000 000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_43			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_44			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl2	'10'B		256 range partial BA
extind	'1'B		
baind	'1'B		
rfl4	'1011'B		
rfl	'97E8E80CEF8000000000 0000000000'O		ARFCN 815, 965, 1000, 0, 2, 6
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_45 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description of cell B for SYSTEM INFORMATION 2 and 5 under GSM900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'8020080200800000000000 000000200'O		ARFCN: 10, 80, 90, 100, 110, 120
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_46			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCN: 988, 990, 1003
rfl	'EE07F30000000000000000 000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_47			
<b>Structured Type</b> : NCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		ARFCN: 1005, 1010, 1015
rfl	'F68AEC0000000000000000 000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_48 <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'043D170B8A62C8F2300000000000'O		ARFCN: 520, 590, 600, 700, 747, 764, 780, 810, 870
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_50 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_25. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_51 <b>Structured Type</b> : NCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'12F83A0000000000000000000000'O		ARFCN 514, 530, 762
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_52 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_33. <b>Encoding Variation</b> : <b>Comments</b> : 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	'2200000000000000000000008 800000200'O		ARFCN 10, 36, 40, 114, 118
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst2_53 <b>Structured Type</b> : NCD2 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'045780000000000000000000 000000000'O		ARFCN 520, 870
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst2_54 <b>Structured Type</b> : NCD2 <b>Derivation Path</b> : BcchFreqLst2_53. <b>Encoding Variation</b> : <b>Comments</b> : 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	'158A80000000000000000000 000000000'O		ARFCN 43, 85
<b>Detailed Comments</b> :			

## 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 :

<b>Comments</b>	: 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	'160A8000000000000000 000000000'O		ARFCN 44, 86

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : BcchFreqLst\_e201

**Structured Type** : NCD

**Derivation Path** : BcchFreqLst\_01.

### Encoding Variation :

<b>Comments</b>	: 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			
<b>Constraint Name</b> : BcchFreqLst_e202 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'058DEF07FE000000000000 000000000'O		ARFCN: 990, 1003, 1005 Format: 256
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e203 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'078904797F83F980000000 000000000'O		ARFCN: 520,990,1003,1005,1020 Format: 512
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e204 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'0987EDFF0E3CFD000000 000000000'O		ARFCN: 0,26,38,990,1003,1005 Format: 1024
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e205 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e206 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e207 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e208 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'058C0026D0000000000000 000000000'O		ARFCN: 0,26,38 Format: 128
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e209 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'058A001374000000000000 000000000'O		ARFCN: 0,26,38 Format: 256
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e210 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'0583E81005000000000000 000000000'O		ARFCN: 520, 1000, 1020 Format: 1024
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e211 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM.			
Element Name	Element Value	Element Encoding	Comments
rfl	'058FBA0200140000000000 000000000'O		ARFCN: 884, 990, 1003, 1005 Format: Variable bit map
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BcchFreqLst_e212 <b>Structured Type</b> : NCD <b>Derivation Path</b> : BcchFreqLst_01. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca1_g01 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1, ca_pgsm(1) = 64.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	'0000000000000000000000 FFFFFFFF'O		ARFCNs = 1.. 64, bit map 0 format
<b>Detailed Comments</b> : B_ARFCN = 16, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g01			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1.			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'0F00F000003C003C0000F E003C008081'O		
<b>Detailed Comments</b> : ca_pgsm(2) = 30, B_ARFCN = 16, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g02			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'0101F1F10101010121010 11111111111'O		
<b>Detailed Comments</b> : ca_pgsm(2) = 30, B_ARFCN = 62, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g03			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'00501010101010101010101010101010FFFF'O		
<b>Detailed Comments</b> : 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

<b>Element Name</b>	<b>Element Value</b>	<b>Element Encoding</b>	<b>Comments</b>
iei rfl	'01100010'B '0090909090909090909090909090'O		bit map 0 format
<b>Detailed Comments :</b> 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	'0909090909090909090909090900'O		bit map 0 format
<b>Detailed Comments</b> : ca_pgsms(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	'0040C0C0C0E0C0C0C0C0C0C0C0C012'O		bit map 0 format
<b>Detailed Comments</b> : ca_pgsms(2) = 30, B_ARFCN = 86, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g07			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'00007F0000FF0000FF0000 0000002003F'O		
<b>Detailed Comments</b> : ca_pgsm(2) = 30, B_ARFCN = 18, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g08			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'00020202021A1A1A1A1A		
	1A3A02020202'O		
<b>Detailed Comments</b> : ca_pgsm(2) = 30, B_ARFCN = 38, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_g09			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'0000000000000F0F0F0F0 00030F0F0F0'O		
<b>Detailed Comments</b> : ca_pgsm(2) = 30, B_ARFCN = 58, not in MA(2)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g01			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'000000000000000000000000 00000E0F0F1'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 16, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g02			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'000100010100010120010		
	10001018080'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 62, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g03			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'00C0008000C000C000C0 00C000000010'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 5, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g04			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'00000000080018180000180018001880'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 8, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g05			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'000000000020002400240 02401240024'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 25, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g06			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'003003000030000003003 00003000000'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 86, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g07			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'001010001000000808000 80810128080'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 18, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g08			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'0F0000000000003800000020000000F0'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 38, not in MA(3)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_g09			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		bit map 0 format
rfl	'008181000000004046000 00000008181'O		
<b>Detailed Comments</b> : ca_pgsm(3) = 12, B_ARFCN = 58, not in MA(3)			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d01			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1.			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F877FFFFFFC0000000000 00000000000'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 782, B_ARFCN = 799, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d02			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F5EFFFE01FE01E0001C		
	000000000000'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 701, B_ARFCN = 705, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d03			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F5F7003FC03FC03FC00 600000000000'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 702, B_ARFCN = 718, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d04			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F7070000F000FF545555 54000000000'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 736, B_ARFCN = 757, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d05			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F5F20A0A0AC0003FFFC 000040404040'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 702, B_ARFCN = 710, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d06			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F627F00202222222222		
	22202007E00'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 708, B_ARFCN = 742, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d07			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F614ACACACACACACA C0000000000000'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 706, B_ARFCN = 734, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d08			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F5E80A0A0A02809E808 001E81E81E00'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 701, B_ARFCN = 776, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca2_d09			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 30 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		variable bit map format
rfl	'8F627000F00078000C808 FA0A0202F00'O		
<b>Detailed Comments</b> : ca_dcs(2) = 30, Org_ARFCN = 708, B_ARFCN = 744, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d01			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 1024
rfl	'831DFC81FFBEC180BE7F F7FC08000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 784, B_ARFCN = 799, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d02			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 256
rfl	'8B5E837D17FFE105FFFF E00000000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 701, B_ARFCN = 705, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d03			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 512
rfl	'895E8A7A04FFFF163B2B FFFC00000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 702, B_ARFCN = 718, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d04			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 1024
rfl	'830AF6037FBFC4C2BEF7DDFC08000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 753, B_ARFCN = 757, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d05			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 256
rfl	'8B628B7B45CF02497EF7000000000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 709, B_ARFCN = 710, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d06			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 512
rfl	'896593F981B37F241F0FB6F800000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 715, B_ARFCN = 742, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d07			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 1024
rfl	'82FDF084FCBE06843C78 FBE068000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 712, B_ARFCN = 734, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d08			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 256
rfl	'8B62233B162F0117FF7FA 0000000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 708, B_ARFCN = 776, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ca3_d09			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 12 ARFCNs for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		Range 512
rfl	'896308BC49BD781C33FE 3AFC00000000'O		
<b>Detailed Comments</b> : ca_dcs(3) = 12, Org_ARFCN = 710, B_ARFCN = 744, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CallCntrlCap			
<b>Structured Type</b> : CCCAP			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CC state 'st'			
Element Name	Element Value	Element Encoding	Comments
iei	'00010101'B		spare bits '0000000'B indication of supporting DTMF
iel	'01'O		
spr	'0000000'B		
dtmf	TSPX_DTMF		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CallState_01(st : INTEGER)			
<b>Structured Type</b> : CST			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CC state 'st'			
Element Name	Element Value	Element Encoding	Comments
CS	'11'B		GSM PLMNS standard
CSV	INT_TO_BIT(st, 6)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_Def <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_01 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_01iei <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01. <b>Encoding Variation</b> : <b>Comments</b> : optional (IEI present) cause information element with cause value = #16, location = user.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_02 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01. <b>Encoding Variation</b> : <b>Comments</b> : cause value #97			
Element Name	Element Value	Element Encoding	Comments
iei	?		
location	?		
extb4	?		
cau_class	'110'B		protocol error
cau_va	'0001'B		message type non-existent
cau_di	*		Diagnostics
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_03 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01.Cause_02. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_04 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01.Cause_02. <b>Encoding Variation</b> : <b>Comments</b> : The cause value is #96 --- invalid mandatory information			
Element Name	Element Value	Element Encoding	Comments
cau_va	'0000'B		invalid mandatory information
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_04iei <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : The cause value is #96 --- invalid mandatory information			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	?		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	?		no octet 3a
extb3a	—		
rec	—		
extb4	?		no extension protocol error
cau_class	'110'B		
cau_va	'0000'B		
cau_di	*		invalid mandatory information
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_06 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_07 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_01. <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_08 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_09			
<b>Structured Type</b> : CAU			
<b>Derivation Path</b> : Cause_08.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_10			
<b>Structured Type</b> : CAU			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_11 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_12 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_13			
<b>Structured Type</b> : CAU			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : cause information element with cause value = #21.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	'02'O		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	'????'B		no octet 3a
extb3a	—		
rec	—		
extb4	'1'B		no extension
cau_class	'001'B		
cau_va	'0101'B		
cau_di	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_14			
<b>Structured Type</b> : CAU			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : cause information element with cause value = #102.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	?		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	'????'B		no octet 3a
extb3a	—		
rec	—		
extb4	?		
cau_class	'110'B		
cau_va	'0110'B		
cau_di	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_15 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_16 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_17 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : optional (IEI present) cause information element with cause value = #17 user busy. ms -> n.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	?		
extb3	'1'B		
cs	'11'B		
spb	'0'B		because cs='11'B because cs='11'B no extension
location	'????'B		
extb3a	—		
rec	—		
extb4	?		
cau_class	'001'B		
cau_va	'0001'B		
cau_di	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_18 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : cause information element with cause value = #30 response to status enquiry. ms -> n.			
Element Name	Element Value	Element Encoding	Comments
iei	—		no extension standard coding
iel	?		
extb3	'1'B		
cs	'11'B		
spb	'0'B		because cs='11'B because cs='11'B no extension
location	'????'B		
extb3a	—		
rec	—		
extb4	?		
cau_class	'001'B		
cau_va	'1110'B		
cau_di	*		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_22 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : cause information element with cause value = #81.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	'02'O		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	'????'B		no octet 3a
extb3a	—		
rec	—		
extb4	'1'B		no extension
cau_class	'101'B		
cau_va	'0001'B		
cau_di	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_23 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : cause information element with cause value = #102.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	'02'O		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	'0000'B		no octet 3a
extb3a	–		
rec	–		
extb4	'1'B		no extension
cau_class	'110'B		
cau_va	'0110'B		
cau_di	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_26 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_27 <b>Structured Type</b> : CAU <b>Derivation Path</b> : Cause_26. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_28 <b>Structured Type</b> : CAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : cause information element with cause value = #29 'facility rejected', n -> ms.			
Element Name	Element Value	Element Encoding	Comments
iei	'00001000'B		no extension standard coding
iel	'02'O		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	'0010'B		no octet 3a
extb3a	—		
rec	—		
extb4	'1'B		no extension
cau_class	'001'B		
cau_va	'1101'B		
cau_di	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cause_68			
<b>Structured Type</b> : CAU			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : cause information element with cause value = #68 "ACM equal to or greater than ACMmax". ms->n.			
Element Name	Element Value	Element Encoding	Comments
iei	–		no extension standard coding
iel	?		
extb3	'1'B		
cs	'11'B		
spb	'0'B		
location	('0000'B, '0001'B, '0010'B, '0011'B, '0100'B, '0101'B, '0111'B, '1010'B)		no octet 3a
extb3a	–		
rec	–		
extb4	'1'B		no extension
cau_class	'100'B		
cau_va	'0100'B		
cau_di	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cdpn_01 <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cdps_01 <b>Structured Type</b> : CDPS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'01101101'B		'01101101'B
iel	'03'O		
subad	SubAdd_01		Subaddress
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_Omit <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Omit descriptor			
Element Name	Element Value	Element Encoding	Comments
iei	–		
rfl	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_01			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCN = 124			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		spare bits = '11'B
rfl	'38000000000000000000 00000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_01d			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCN = 801			
Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		spare bits = '11'B
rfl	'BF908000000000000000000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_02			
<b>Structured Type</b> : CCHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	'000000000000002000020 00020080000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_03 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '8927282719000000000000 00000000000'O		ARFCNs : 590, 650, 750, 850 512 range
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_04 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : for cell B in RR testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '0000000000000000000000 00000000200'O		ARFCNs : 10
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_05 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N1 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'0000000000000000000000 00000000080'O		ARFCNs : 8
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_05d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N1 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl	'82120000000000000000 00000000000'O		ARFCNs : 530 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_06 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N2 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000002000'O		ARFCNs : 14
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_06d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N2 in measurement testing of DCS.			
Element Name	Element Value	Element Encoding	Comments
rfl	'825A0000000000000000 00000000000'O		ARFCNs : 602 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_07 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N3 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00000080000'O		ARFCNs : 20
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_07d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N3 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl	'82990000000000000000 00000000000'O		ARFCNs : 665 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_08 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N4 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 00002000000'O		ARFCNs : 26
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_08d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N4 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl	'82FA000000000000000000000000000000000000'O		ARFCNs : 762 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_09 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N5 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00'O		ARFCNs : 32
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_09d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N5 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl	'82AE000000000000000000000000000000000000'O		ARFCNs : 686 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_10 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N6 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 020000000000'O		ARFCNs : 38
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_10d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N6 in measurement testing of DCS1800.			
Element Name	Element Value	Element Encoding	Comments
rfl	'82250000000000000000 000000000000'O		ARFCNs : 549 , 1024 range format
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_11 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_04. <b>Encoding Variation</b> : <b>Comments</b> : for cell N7 in measurement testing of GSM 900.			
Element Name	Element Value	Element Encoding	Comments
rfl	'00000000000000000000 800000000000'O		ARFCNs : 44
<b>Detailed Comments</b> :			

## 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	'832A0000000000000000 0000000000'0		ARFCNs : 810 , 1024 range format

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : CellChDes\_12

**Structured Type** : CCHD

Derivation Path :

### Encoding Variation :

<b>Comments</b>	: bit map o format
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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 :

<b>Comments</b>	: variable bit map format
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Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'8F450000000000000000 00000001000'O		ARFCN 650 and 750

**Detailed Comments :**

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_12man <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : bit map o format			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '000000000000000000020 0002000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_12dman <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : variable bit map format			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '8F450000000000000000 00000001000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_15 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '00000000000000000004083 20202090200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_15d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_19 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_A <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_Aman <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'000208000000F0204083 20202090200'O		bit map 0
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_201_Ad <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_202_Ad <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_203_Ad <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	- '8B7093732FC602C59EFF A54999400000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_203_Adiei <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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	'8B7093732FC602C59EFF A54999400000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_202_Adman <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	- '896F0A7CC5FC700A8B9F 7FF452463340'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_B <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_Bman <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_Be(par_rfl : OCTETSTRING) <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_201_Bd <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '8B71907137B602C5DEF7 A348D8000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_202_Bd <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '8971883C46FB700A8BDF 7DF432433000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_201_Bdiei <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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	'8B71907137B602C5DEF7 A348D8000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_20_B0d <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_21_B <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_21_Bd <b>Structured Type</b> : CCHD <b>Derivation Path</b> : CellChDes_01. <b>Encoding Variation</b> : <b>Comments</b> : 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 00000000000'O		512 range
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_22 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : for cell A in EGSM testing: 20, 30, 50, 70			
Element Name	Element Value	Element Encoding	Comments
iei rfl	– '000000000000002000020 00020080000'O		Format:Bit map 0
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_23A <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '0002080000007F0200000 08000080000'O		Format:Bit map 0
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_23B <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	– '00000000000000068000 08000000A00'O		Format:Bit map 0
<b>Detailed Comments</b> :			

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: CellChDes_24
<b>Structured Type</b>	: CCHD
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: ARFCN 520: range 512 format

Element Name	Element Value	Element Encoding	Comments
iei	'01100010'B		
rfl	'89000000000000000000000000000000 000000000000'O		ARFCN 520: Range 512 format
<b>Detailed Comments :</b>			

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: CellChDes_r01
<b>Structured Type</b>	: CCHD
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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
<b>Detailed Comments :</b>			

## Structured Type Constraint Declaration

<b>Constraint Name</b>	: CellChDes_r02
<b>Structured Type</b>	: CCHD
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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	'8F728200000000000000000000000000'O		variable bit map format
Detailed Comments :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_r03 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'0002080000000F020408300000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellChDes_r04 <b>Structured Type</b> : CCHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'00000000000000000000000000000000000090000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellDescrp(ncc1, bcc1 : B_3; par_arfcn: INTEGER) <b>Structured Type</b> : CD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_01			
<b>Structured Type</b> : CO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		power control indicator not set  MS shall not use uplink discontinuous transmission.  radio link timeout, 8 SACCH blocks
pwrc	'0'B		
dtx	'10'B		
rlt	'0001'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_02			
<b>Structured Type</b> : CO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : parameters from 26.3.1 of GSM 11.10			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		power control indicator not set  MS shall not use uplink discontinuous transmission.  radio link timeout, 10 SACCH blocks
pwrc	'0'B		
dtx	'10'B		
rlt	'0101'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_03			
<b>Structured Type</b> : CO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used in measurement testing			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		power control indicator is set  MS shall use uplink discontinuous transmission.  radio link timeout, 8 SACCH blocks
pwrC	'1'B		
dtX	'01'B		
rlt	'0001'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_04			
<b>Structured Type</b> : CO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : spare bit is set to '1'B			
Element Name	Element Value	Element Encoding	Comments
sprb	'1'B		power control indicator not set  MS shall not use uplink discontinuous transmission.  radio link timeout, 8 SACCH blocks
pwrC	'0'B		
dtX	'10'B		
rlt	'0001'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_05			
<b>Structured Type</b> : CO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		power control indicator not set  MS shall not use uplink discontinuous transmission.  radio link timeout
pwrC	'0'B		
dtX	'10'B		
rlt	'1111'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellOpt_06 <b>Structured Type</b> : CO <b>Derivation Path</b> : CellOpt_04. <b>Encoding Variation</b> : <b>Comments</b> : spare bit is set to '1'B			
Element Name	Element Value	Element Encoding	Comments
pwrC	'1'B		power control indicator is set
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellSelPara(crh, mtmc : INTEGER; neci : B_1)			
<b>Structured Type</b> : CSP			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Default value.			
Element Name	Element Value	Element Encoding	Comments
crh	INT_TO_BIT(crh, 3)		no additional cell parameters are presented in SI msg 7 and 8  new establishment causes are not supported  minimum
mtmc	INT_TO_BIT(mtmc, 5)		
acs	'0'B		
neci	neci		
ram	'000000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellSelPara_01			
<b>Structured Type</b> : CSP			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 additional cell parameters are presented in SI msg 7 and 8
neci	'0'B		new establishment causes are not supported
ram	'000000'B		minimum
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : CellSelPara_04 <b>Structured Type</b> : CSP <b>Derivation Path</b> : CellSelPara_01. <b>Encoding Variation</b> : <b>Comments</b> : Default value for DCS1800.			
Element Name	Element Value	Element Encoding	Comments
mtmc	'01111'B		minimum for DSC1800 is 15
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cgpn_01			
<b>Structured Type</b> : CGPN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
psi	PiSi_01		containing arbitrary bits
digits	'01'O		BCD numbers
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Cgps_01			
<b>Structured Type</b> : CGPS			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'01011101'B		'01011101'B
iel	'03'O		
subad	SubAdd_01		Subaddress
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_nfh(type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for CC testing, non hopping, no starting time.			
Element Name	Element Value	Element Encoding	Comments
iei	–		channel type and TDMA offset
cht_schn	type		
tn	slot		
tsc	tsc		
hch	'0'B		
maio	–		
hsn	–		
spr	'00'B		ARFCN
arfcn	INT_TO_BIT(par_arfcn, 10)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_nfhiei(type : CH_TDMA; slot : SN; tsc : TSC; par_arfcn: INTEGER)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for CC testing, non hopping, no starting time, with iei.			
Element Name	Element Value	Element Encoding	Comments
iei	'01100100'B		channel type and TDMA offset Time slot training sequence code
cht_schn	type		
tn	slot		
tsc	tsc		
hch	'0'B		
maio	–		
hsn	–		
spr	'00'B		ARFCN
arfcn	INT_TO_BIT(par_arfcn, 10)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_fh( par_chtype: CH_TDMA; ts_ccch: SN; tsc : TSC; maio : MAIO; hsn : HSN) <b>Structured Type</b> : CHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_fhiei( par_chtype: CH_TDMA; ts_ccch: SN; tsc : TSC; maio : MAIO; hsn : HSN) <b>Structured Type</b> : CHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_sdcch8_fh(slot : SN; tsc : TSC; sch : B_3; maio : MAIO; hsn : HSN)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for SDCCH8.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01100100'B          hopping
cht_schn	INT_TO_BIT((8 + BIT_TO_INT( sch)), 5)		
tn	slot		
tsc	tsc		
hch	'1'B		
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_sdcch8_nfh(slot : SN; tsc : TSC; subch : B_3; arfcn : INTEGER)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for SDCCH8 in cell A for RR test.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01100100'B          non hopping
cht_schn	INT_TO_BIT((8 + BIT_TO_INT(subch)), 5)		
tn	slot		
tsc	tsc		
hch	'0'B		
maio	–		
hsn	–		
spr	'00'B		
arfcn	INT_TO_BIT(arfcn, 10)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_tchf_fh(slot : SN; tsc : TSC; maio : MAIO; hsn : HSN)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for TCH/F in cell A for RR test.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01100100'B  TCH/F      hopping
cht_schn	'00001'B		
tn	slot		
tsc	tsc		
hch	'1'B		
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		
<b>Detailed Comments</b> : Used in TC_26_6_4_1 only			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_tchh_fh( slot : SN; tsc : TSC; subch : B_1; maio : MAIO; hsn : HSN)			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Channel description for TCH/H in cell A for RR test.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01100100'B TCH/H  hopping
cht_schn	INT_TO_BIT((2 + BIT_TO_INT(subch)), 5)		
tn	slot		
tsc	tsc		
hch	'1'B		
maio	maio		
hsn	hsn		
spr	–		
arfcn	–		
<b>Detailed Comments</b> : Used in TC_26_6_4_1 only			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChDescrp_tchh_nfh( slot : SN; tsc : TSC; subch : B_1; arfcn : INTEGER) <b>Structured Type</b> : CHD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod( mode : B_8) <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	mode		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_iei( mode : B_8) <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	mode		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r01 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_1 after time			
Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	TSPX_ChMod1		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r02 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_2 after time			
Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	TSPX_ChMod2		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r03 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_r01. <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_5			
Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod4		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r04 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_r01. <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_6			
Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod5		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r05 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_r01. <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_7			
Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod6		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_r06 <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_r01. <b>Encoding Variation</b> : <b>Comments</b> : for TC_26_6_13_8			
Element Name	Element Value	Element Encoding	Comments
mode	TSPX_ChMod7		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_sign <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : signalling only			
Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	C_ChMod_s		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_sign_iei <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : signalling only			
Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	C_ChMod_s		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_speech <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_sign. <b>Encoding Variation</b> : <b>Comments</b> : speech full or half rate.			
Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_r		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_speech_iei <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : speech full or half rate.			
Element Name	Element Value	Element Encoding	Comments
iei	'01100011'B		
mode	C_ChMod_r		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_12k <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_sign. <b>Encoding Variation</b> : <b>Comments</b> : data 9.6 kb/s full rate, ( 12.0 kb/s air interface)			
Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_12k		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_6k <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_sign. <b>Encoding Variation</b> : <b>Comments</b> : data 4.8 kb/s full rate, (6.0 kb/s air interface)			
Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_6k		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_3k <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_sign. <b>Encoding Variation</b> : <b>Comments</b> : data 2.4 kb/s full rate, (3.6 kb/s air interface)			
Element Name	Element Value	Element Encoding	Comments
mode	C_ChMod_3k		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_rcv <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : ChMod_sign. <b>Encoding Variation</b> : <b>Comments</b> : used only in the OM_ChConf operation,			
Element Name	Element Value	Element Encoding	Comments
mode	'11111111'B		receiving only
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ChMod_omit <b>Structured Type</b> : CHMOD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : parametrised mode.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
mode	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Chneed_01 <b>Structured Type</b> : CHNEED <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : any channel			
Element Name	Element Value	Element Encoding	Comments
ch2	'00'B		
ch1	'00'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Chneed_02 <b>Structured Type</b> : CHNEED <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : SDCCH channel needed.			
Element Name	Element Value	Element Encoding	Comments
ch2	'00'B		
ch1	'01'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Chneed_03 <b>Structured Type</b> : CHNEED <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : TCH/F channel needed.			
Element Name	Element Value	Element Encoding	Comments
ch2	'00'B		
ch1	'10'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Chneed_04 <b>Structured Type</b> : CHNEED <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Dual rate channel needed.			
Element Name	Element Value	Element Encoding	Comments
ch2	'00'B		
ch1	'11'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CiphRes_01 <b>Structured Type</b> : CPH_RES <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	'000'B		spare bits
cr	'0'B		IMEISV not included
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CiphRes_02 <b>Structured Type</b> : CPH_RES <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	'000'B		spare bits
cr	'1'B		IMEISV shall be included
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ClassMark1 <b>Structured Type</b> : MSCLM1 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : ClassMark2Amp <b>Structured Type</b> : MSCLM2 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ClassMark3 <b>Structured Type</b> : MSCLM3 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'00100000'B		length
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)		
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CntrlChDscrp_inv <b>Structured Type</b> : CCD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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, attach/detach not allowed
att	'0'B		
babr	'000'B		
ccch_con	'001'B		
spr2	'01100'B		5 multiframe periods
bpm	'011'B		
t3212	'00'O		
infinite			
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CntrlChDscrp(att: INTEGER; babr, cch_con, bpm : B_3; timer : OCTETSTRING)			
<b>Structured Type</b> : CCD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphKeySN_01( cksn : B_3) <b>Structured Type</b> : CPHKSN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		spare bit '0'B
ks	cksn		default key sequence number
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphKeySN_02			
<b>Structured Type</b> : CPHKSN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphKeySN_06			
<b>Structured Type</b> : CPHKSN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphKeySN_07(par: BITSTRING)			
<b>Structured Type</b> : CPHKSN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
sprb	'0'B		spare bit '0'B
ks	par		default key sequence number
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_omit <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	–		
sc	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_01 <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	TSPX_CphAlgDef		algorithm identifier
sc	'1'B		starting ciphering
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_02 <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : CphMod_01. <b>Encoding Variation</b> : <b>Comments</b> : No ciphering			
Element Name	Element Value	Element Encoding	Comments
sc	'0'B		no ciphering
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_02iei <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : No ciphering			
Element Name	Element Value	Element Encoding	Comments
iei	'1001'B		
algid	TSPX_CphAlgDef		algorithm identifier
sc	'0'B		no ciphering
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_03 <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	'000'B		algorithm A5/1
sc	'1'B		starting ciphering
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_04(alg : BITSTRING) <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : starting ciphering with the ciphering algorithm 'alg'.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
algid	alg		algorithm identifier
sc	'1'B		starting ciphering
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CphMod_04iei(alg : BITSTRING) <b>Structured Type</b> : CPHMS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : facilityIErcv( comp : Component) <b>Structured Type</b> : FIE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : facilityIErcviei( comp : Component) <b>Structured Type</b> : FIE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : facilityIEtsnd( comp : Component_T) <b>Structured Type</b> : FIE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_LengthOfComp( comp)		
components_1	–		
components_t	comp		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : facilityIEtsndiei( comp : Component_T) <b>Structured Type</b> : FIE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'00011100'B		
iel	OC_LengthOfComp( comp)		
components_1	–		
components_t	comp		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Fn_01 <b>Structured Type</b> : FN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : not pertaining to the MS under test			
Element Name	Element Value	Element Encoding	Comments
t1_	'00000'B		
t3	'000000'B		
t2	'00000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqBCCH(arfcn : INTEGER) <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_omit <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
larfcn	–		
incs	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_01 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_02 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_03 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_04 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_05 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_06 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freqchseq_22 <b>Structured Type</b> : FRQCHS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCH( arfcn : INTEGER) <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCH_omit			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa1 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa2 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqTCHa1. <b>Encoding Variation</b> : <b>Comments</b> : Traffic channel for cell A, ARFCN = 801 hopping, for DCS1800			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_05		frequency list for hopping
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : FreqTCH_ef1(par_ma: BITSTRING; par_freqlist: OCTETSTRING; par_flistl: LENGTH; n :INTEGER)			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
flst	Frql_20_egsm(par_freqlist, par_flistl)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCH_ef2(par_ma1: BITSTRING;par_ma2: BITSTRING; par_freqlist: OCTETSTRING; par_flist: LENGTH; n :INTEGER)			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

### 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		{10,17,20,26,59,66,73,74,7 5,76,108,114}

**Detailed Comments** :

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa_hof1d <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			



### 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		{10,17,20,26,34,42,45,46,5 2,59,66,73,74,75,76,108,11 4}

**Detailed Comments** :

Structured Type Constraint Declaration																
<b>Constraint Name</b> : FreqTCHa_hof2d																
<b>Structured Type</b> : FRQPARA																
<b>Derivation Path</b> :																
<b>Encoding Variation</b> :																
<b>Comments</b> : 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															
mac_8n	'00000001'B															
mac_7n	'00000000'B															
mac_6n	'00000000'B															
mac_5n	—															
mac_4n	—															
mac_3n	—															
mac_2n	—															
mac_1n	—															
flst	Frql_20_A0d															

## 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		{10,17,20,26,34,42,45,46,5 2,59,66,73,74,75,76,108,11 4}

**Detailed Comments** :

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa_hof3d <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa_hof4 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqTCHa_hof3. <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHa_hof4d <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqTCHa_hof3d. <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHb_hof1 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		{14,18,22,24,60,66,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : FreqTCHb_hof2 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

### 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 {14,18,22,24,30,31,38,53,6 6,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : FreqTCHb_hof4 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

### 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		{14,18,22,24,30,31,38,40,6 0,66,73,74,75,76,108,114}

**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			
<b>Constraint Name</b> : FreqTCHb_hof6 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</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	'00000001'B		(14)
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_B0		{14,18,22,24,30,31,38,40,6 0,66,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHb_hof6d			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
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)
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHb_hof7 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		{14,18,22,24,30,31,38,40,6 0,66,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : FreqTCHb_hof8			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		{14,18,22,24,30,31,38,40,6 0,66,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqTCHb_hof8d <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			

## 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, 764,771,779,782,791,798,8 29,832,844}

**Detailed Comments** :

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqSDCCHa_hof1			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		(73,74,75)
mac_7n	'00111000'B		
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
flst	Frql_20_A0		
			{10,17,20,26,34,42,45,46,5 2,59,66,73,74,75,76,108,11 4}
<b>Detailed Comments</b> :			

## 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, 766,767,773,775,779,782,7 91,798,829,832,844}

**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			
<b>Constraint Name</b> : FreqSDCCHa_hof3 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		{10,17,20,26,34,42,45,46,5 2,59,66,73,74,75,76,108,11 4}
<b>Detailed Comments</b> :			

### 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		{14,18,22,24,30,31,38,60,6 6,73,74,75,76,108,114}
<b>Detailed Comments</b> :			

### 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		{14,18,22,24,30,31,38,40,6 6,73,74,75, 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			
<b>Constraint Name</b> : FreqSDCCH8_rg1			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqSDCCH8_rg2			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqSDCCH8_rd1 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1. <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FreqSDCCH8_rd2 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.FreqSDCCH8_rg2. <b>Encoding Variation</b> : <b>Comments</b> : hopping SDCCH8 channel of TC_26_6_13_2 for DCS .			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : FreqSDCCH8_e2			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg2			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd2 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg2. <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg4			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd4 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg4. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_2 for DCS, after time.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg5			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd5 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg5. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_3 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg7 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd7 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg7. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_4 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg8 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd8 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg8. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg9 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd9 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg9. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_5 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg10 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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}
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg11			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : Freq_rg10.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd11 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg10.Freq_rg11. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg12			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd12 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg12. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg13			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : Freq_rg10.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd13 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg10.Freq_rg13. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg14 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd14 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg14. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_7 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg15			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd15 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg15. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_13_8 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_20_A1d		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg16			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		same as after time
hsn	INT_TO_BIT(TSPX_Hsn28, 6)		
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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd16 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg16. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg17			
<b>Structured Type</b> : FRQPARA			
<b>Derivation Path</b> : FreqSDCCH8_rg1.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd17 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : FreqSDCCH8_rg1.Freq_rg17. <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg18 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd18 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg19 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd19 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg19. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg20 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd20 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg20. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg21 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd21 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg21. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_32		
<b>Detailed Comments</b> : ARFCN's: 717, ..., 724, 733, ..., 744, 757, ..., 760, 773, ..., 812			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rg22 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd22 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg22. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_33		
<b>Detailed Comments</b> : 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			
<b>Constraint Name</b> : Freq_rg23 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd23 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg23. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_34		
<b>Detailed Comments</b> : 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			
<b>Constraint Name</b> : Freq_rg24 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd24 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg24. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_35		
<b>Detailed Comments</b> : 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			
<b>Constraint Name</b> : Freq_rg25 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Freq_rd25 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : Freq_rg18.Freq_rg25. <b>Encoding Variation</b> : <b>Comments</b> : hopping channel of TC_26_6_6_1 for DCS, immediate assignment.			
Element Name	Element Value	Element Encoding	Comments
flst	Frql_36		
<b>Detailed Comments</b> : 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			
<b>Constraint Name</b> : Freq_rd26 <b>Structured Type</b> : FRQPARA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> : ARFCN's: 717, ..., 748, 765, ..., 796			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql(par_flist, par_flistl : LENGTH)			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : parameterized frequency list information element.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length of the contents
iel	par_flistl		
fl	par_flist		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_omit <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
fl	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_short(flist : OCTETSTRING) <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_01 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

## 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	'08000000000000000000000000000000'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			
<b>Constraint Name</b> : Frql_07			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 20, 30, 50, 70			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		bitmat 0 format
iel	'10'O		
fl	'00000000000000020000200020080000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_08			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 10, 34, 52, 73, 108, 114.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  bit map 0 format, ARFCNs = 10, 34, 52, 73, 108, 114
iel	'10'O		
fl	'00020800000001000008000200000200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_09			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 734, 741, 759, 766, 773, 832, 844			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  range 1024 format, ARFCNs: 734, 741, 759, 766, 773, 832, 844
iel	'10'O		
fl	'82FEF390BE7144830000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_10			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 10, 17, 20, 26, 34, 42, 45, 46, 52, 59			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  bit map 0 format, ARFCNs 10, 17, 20, 26, 34, 42, 46, 52, 59
iel	'10'O		
fl	'00000000000000000408320202090200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_11			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  bit map 0 format, ARFCNs 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114
iel	'10'O		
fl	'0002080000000F02040830000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_12			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 17, 20			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  bit map 0 format, ARFCNs 17, 20
iel	'10'O		
fl	'000000000000000000000000 00000090000'O		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_13			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  1024 range format, ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782
iel	'10'O		
fl	'82FEF6837EBF0300FCFE F60000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_14			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  1024 range format, ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844
iel	'10'O		
fl	'8315FB0AFF3F40C33F5A 000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_15			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 741, 747			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  1024 range format, ARFCNs 741,747
iel	'10'O		
fl	'82EBFD0000000000000000 00000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_17			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs 590, 650, 750, 850			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  1024 range format, ARFCNs 590, 650, 750, 850
iel	'10'O		
fl	'82EECE19310000000000 000000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 1.. 64 for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 1.. 64, bit map 0 format B_ARFCN = 16
iel	'10'O		
fl	'0000000000000000FFFF FFFFFFFF'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A0			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0204083 20202090200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A0d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'896F0A7CC5FC700A8B9F7FF452463340'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_egsm(par_flist: OCTETSTRING; par_flistl: LENGTH) <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Complete Cell Allocation in EGSM cases.			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		
iel	par_flistl		
fl	par_flist		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'0002080000000F02040000002090200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_Ad <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frqls_20_Ad <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A1d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A2			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0204083 20202090200'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A2d			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B0 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0208000 0A060A22000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B0d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		Frql_20_B2
iel	'0F'O		
fl	'8971883C46FB700A8BDF 7DF4324330'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B1			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0200100 02060222000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B1d			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 13
iel	'0D'O		
fl	'8B71907137B602C5DEF7 A348D8'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B2			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0208000 0A060A22000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B3			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0208000 00000A22000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B4			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0200000 08000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B3d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B4d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'8F7E000120102000000004 80080'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B5			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'0002080000000F0200100 02060A22000'O		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B5d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B6d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B7 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'0002080000000F020800002060A22000'O		bit map 0
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B72			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'00000800000000F0200000 0A060A22000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B7d			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B8d			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B9d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B10d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_11d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_B12d <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_20_A0E			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16
iel	'10'O		
fl	'841EEA893EF9814380000 0000000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_21			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 61.. 124 for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 61.. 124, bit map 0 format
iel	'10'O		
fl	'0FFFFFFFFFFFFFFFFF0000 00000000000'O		
<b>Detailed Comments</b> : B_ARFCN = 62			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_22			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16 ARFCNs = 1, 3, 5, ..., 123, 2, 4, bit map 0 format
iel	'10'O		
fl	'05555555555555555555555555555555F'O		
<b>Detailed Comments</b> : B_ARFCN = 5			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_23			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16 ARFCNs = 2, 4, 6, ..., 124, 1, 3, bit map 0 format
iel	'10'O		
fl	'0AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAF'O		
<b>Detailed Comments</b> : B_ARFCN = 8, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_24			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 21, ..., 84, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 21, ..., 84, bit map 0 format
iel	'10'O		
fl	'000000000000FFFFFFFF FFFFFF00000'O		
<b>Detailed Comments</b> : B_ARFCN = 25, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_25			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 81, ..., 124, 1, ..., 20, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 81, ..., 124, 1, ..., 20, bit map 0 format
iel	'10'O		
fl	'0FFFFFFFFFFFF000000000 000000FFFFF'O		
<b>Detailed Comments</b> : B_ARFCN = 86, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_26			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 11, ..., 74, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 11, ..., 74, bit map 0 format
iel	'10'O		
fl	'000000000000003FFFFFFFF FFFFFFFFC00'O		
<b>Detailed Comments</b> : B_ARFCN = 18, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_27			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 31, ..., 94, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 31, ..., 94, bit map 0 format
iel	'10'O		
fl	'000000003FFFFFFFFFFFF FFFC0000000'O		
<b>Detailed Comments</b> : B_ARFCN = 38, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_28			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 51, ...,114, for GSM of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 51, ...,114, bit map 0 format
iel	'10'O		
fl	'0003FFFFFFFFFFFFFFFFC00000000000'O		
<b>Detailed Comments</b> : B_ARFCN = 58, not in MA(1)			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_29			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 749, ..., 812, for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16 ARFCNs = 749, ..., 812, variable bit map format
iel	'10'O		
fl	'8F76FFFFFFFFFFFFFFFFF0 00000000000'O		
<b>Detailed Comments</b> : Org_ARFCN = 750, B_ARFCN = 799, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_30			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 701,...,764, for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  ARFCNs = 702, ..., 765, variable bit map format
iel	'10'O		
fl	'8F5EFFFFFFFFFFFFFFFFF0 00000000000'O		
<b>Detailed Comments</b> : Org_ARFCN = 701, B_ARFCN = 705, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_31			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16  variable bit map format
iel	'10'O		
fl	'8F5F2AAAAABABABABA BABABABAAAAA'O		
<b>Detailed Comments</b> : Org_ARFCN = 702, B_ARFCN = 718, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_32			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16  variable bit map format
iel	'10'O		
fl	'8F66FF00FFF000F000FFF FFFFFFF0000'O		
<b>Detailed Comments</b> : Org_ARFCN = 717, B_ARFCN = 757, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_33			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		length = 16  variable bit map format
iel	'10'O		
fl	'8F5F7FFFFFFE00088E		



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_34 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		length = 16 variable bit map format
iel	'10'O		
fl	'8F61BEBEBEBEBEBEBE E8080809F9F80'O		
<b>Detailed Comments</b> : Org_ARFCN = 707, B_ARFCN = 742, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_35 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		length = 16  variable bit map format
iel	'10'O		
fl	'8F60FFFFFFFFF000AAAAA AAAAAAAAAAAA0'O		
<b>Detailed Comments</b> : Org_ARFCN = 705, B_ARFCN = 734, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_36 <b>Structured Type</b> : FRQL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		length = 16  variable bit map format
iel	'10'O		
fl	'8F5F2AAAAAAAAAAAAA BFFFE01FE01FE'O		
<b>Detailed Comments</b> : Org_ARFCN = 702, B_ARFCN = 776, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_37			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCNs = 717, ..., 748, 765, ..., 796 , for DCS of TC_26_6_6_1			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  variable bit map format
iel	'10'O		
fl	'8F66FFFFFFFF0000FFFF FFF00000000'O		
<b>Detailed Comments</b> : Org_ARFCN = 717, B_ARFCN = 744, not in MA			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_38			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCN 30 and 50			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  ARFCN 30 and 50
iel	'10'O		
fl	'000000000000000000020 00020000000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Frql_38d			
<b>Structured Type</b> : FRQL			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ARFCN 650 and 750, variable bit map			
Element Name	Element Value	Element Encoding	Comments
iei	'00000101'B		length = 16  ARFCN 650 and 750
iel	'10'O		
fl	'8F450000000000000000 00000001000'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Hlcmp_AnyOrOmit <b>Structured Type</b> : HLCMP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : used in test cases where the HLC is not checked			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Hlcmp_NotApplicable <b>Structured Type</b> : HLCMP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Hlcmp_TS61 <b>Structured Type</b> : HLCMP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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.
pmp	'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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Hlcmp_TS62 <b>Structured Type</b> : HLCMP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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.
pmp	'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
<b>Detailed Comments</b> :			

## Structured Type Constraint Declaration

**Constraint Name** : laRestOct( iel : LENGTH)

**Structured Type** : IARESTOCT

Derivation Path :

**Encoding Variation :**

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	-		
iaroct1	OC_SubOctet( '2B2B2B2B2B2B2B2B2B 2B2B2B2B2B2B2B'0, (11 - OC_OctToInt( iel)))		p=00 format
iaroct2	-		p=10 format

**Detailed Comments :**

## Structured Type Constraint Declaration

**Constraint Name** : laRestOct\_01

**Structured Type** : IARESTOCT

Derivation Path :

### Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	-		
iaroct1	'2B2B2B2B2B2B2B2B2B' 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** : laRestOct\_02

**Structured Type** : IARESTOCT**Derivation Path** :

### Encoding Variation :

Comments :

Element Name	Element Value	Element Encoding	Comments
iei	-		
iarect1	'2B2B2B2B2B2B2B2B2B 'O		p=00 format, 10 octets
iarect2	-		p=10 format used in TC_26_6_13_9, TC_26_6_13_10

**Detailed Comments :**

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct_03			
<b>Structured Type</b> : IARESTOCT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used in TC_26_6_13_9.			
Element Name	Element Value	Element Encoding	Comments
iei	–		p=10 format, TSPX_Maio29, TSPX_Ma29
iaroct1	–		
iaroct2	IaRestOct2_01		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct_04			
<b>Structured Type</b> : IARESTOCT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used in TC_26_6_13_10.			
Element Name	Element Value	Element Encoding	Comments
iei	–		p=00 format  p=10 format, TSPX_Maio31, TSPX_Ma31
iaroct1	–		
iaroct2	IaRestOct2_02		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct_05			
<b>Structured Type</b> : IARESTOCT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		p=00 format, all octets are diffrent from '2B'O
iaroct1	'1A4C6B8EAF37B21A2D5 B65'O		
iaroct2	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct_06			
<b>Structured Type</b> : IARESTOCT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		p=00 format, 3 '2B' octets
iaroct1	'2B2B2B'O		
iaroct2	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct_08			
<b>Structured Type</b> : IARESTOCT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		p=00 format, 8 '2B' octets
iaroct1	'2B2B2B2B2B2B2B2B'O		
iaroct2	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct2_01 <b>Structured Type</b> : IARESTOCT2 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
p	'10'B		'10'B p=10 format length of frequency parameters contents spare bits '00'B MAIO mobile allocation index offset 3 octets
frqparalen	'000100'B		
spbt1	'00'B		
maio	INT_TO_BIT(TSPX_Maio29, 6)		
ma	TSPX_Ma29		
spbt2	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : IaRestOct2_02 <b>Structured Type</b> : IARESTOCT2 <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : KeyPad_01(character : IA5String) <b>Structured Type</b> : KPF <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : KeyPad_02 <b>Structured Type</b> : KPF <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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)
<b>Detailed Comments</b> :			



## 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

Continued on next page

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
dplx	*		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

Continued on next page

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
dplx	*		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
<b>Detailed Comments</b> : 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
dplx	*		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
dplx	*		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
dplxrn	*		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			
<b>Constraint Name</b> : LocAreald_anyomit <b>Structured Type</b> : LAI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Omitted constraint			
Element Name	Element Value	Element Encoding	Comments
iei	*		
mcc	*		
mnc	*		
lac	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : LocAreald(mcc, mnc, lac : OCTETSTRING) <b>Structured Type</b> : LAI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : LocArealdiei(mcc, mnc, lac : OCTETSTRING) <b>Structured Type</b> : LAI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : LocUpType( locup : B_2)			
<b>Structured Type</b> : LUT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g01			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g02 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g03 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g04			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g05			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g06			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g07			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g08			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma1_g09			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'08'O		
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		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g01			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00111111'B		
mac_7n	'11111100'B		
mac_6n	'00000000'B		
mac_5n	'00000000'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g02			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00000000'B		
mac_7n	'00000000'B		
mac_6n	'00000000'B		
mac_5n	'00001111'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g03			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00000000'B		
mac_7n	'00011111'B		
mac_6n	'00000000'B		
mac_5n	'00000000'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g04			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00000000'B		
mac_7n	'00001010'B		
mac_6n	'10101010'B		
mac_5n	'00000000'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g05 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00010101'B		
mac_7n	'01000000'B		
mac_6n	'00000000'B		
mac_5n	'10101000'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g06			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00011010'B		
mac_7n	'10100000'B		
mac_6n	'00000000'B		
mac_5n	'00011100'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g07			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00011100'B		
mac_7n	'00000011'B		
mac_6n	'10011100'B		
mac_5n	'00000000'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g08			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00000001'B		
mac_7n	'00100100'B		
mac_6n	'10010000'B		
mac_5n	'00011111'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma2_g09			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'04'O		
mac_8n	'00110000'B		
mac_7n	'00000011'B		
mac_6n	'11010000'B		
mac_5n	'00001111'B		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g01			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001110'B		
mac_7n	'11111111'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g02			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00000100'B		
mac_7n	'00000011'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g03			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001010'B		
mac_7n	'10100000'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g04			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00000111'B		
mac_7n	'11000000'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g05			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001010'B		
mac_7n	'10100101'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g06			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001111'B		
mac_7n	'00001011'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g07			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001010'B		
mac_7n	'11110011'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g08			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001111'B		
mac_7n	'00101111'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Ma3_g09			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'02'O		
mac_8n	'00001111'B		
mac_7n	'11101110'B		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Mi_01			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used as a comprehension required IE			
Element Name	Element Value	Element Encoding	Comments
iei	'00000000'B		comprehension required IEI length = 1 arbitrary contents
iel	'01'O		
idigit_1	'1110'B		
oei	'1'B		
toi	'111'B		
idigits_other	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Mi_02			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used as an unknown IEI.			
Element Name	Element Value	Element Encoding	Comments
iei	'10101110'B		unknown IEI
iel	–		
idigit_1	–		
oei	–		
toi	–		
idigits_other	–		
<b>Detailed Comments</b> : used in TC_26_5_6_1_1.			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Mi_05			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Mi_06 <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> : used in TC_26_5_6_1_2.			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmei_01 <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmeisv_01			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : TSPX_IMEISV			
Element Name	Element Value	Element Encoding	Comments
iei	–		length of IMEISV (16 digits) is even  IMEISV is used
iel	'09'O		
idigit_1	OC_FirstDigi(TSPX_IMEISV )		
oei	'0'B		
toi	'011'B		
idigits_other	OC_OtherDigi(TSPX_IMEIS V)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmeisv_01iei			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : TSPX_IMEISV			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		length of IMEISV (16 digits) is even  IMEISV is used
iel	'09'O		
idigit_1	OC_FirstDigi(TSPX_IMEISV )		
oei	'0'B		
toi	'011'B		
idigits_other	OC_OtherDigi(TSPX_IMEIS V)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_01			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : the TSPX_IMSI is the IMSI of the MS under test			
Element Name	Element Value	Element Encoding	Comments
iei	–		IMSI is used
iel	OC_IntToOct((( LENGTH_OF(TSPX_IMSI))/ 2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	'001'B		
idigits_other	OC_OtherDigi(TSPX_IMSI)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_01iei			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : the TSPX_IMSI is the IMSI of the MS under test			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		IMSI is used
iel	OC_IntToOct((( LENGTH_OF(TSPX_IMSI))/ 2 + 1),1)		
idigit_1	OC_FirstDigi(TSPX_IMSI)		
oei	OC_OeBit(TSPX_IMSI)		
toi	'001'B		
idigits_other	OC_OtherDigi(TSPX_IMSI)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_02			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		no identity
iel	'01'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'000'B		
idigits_other	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_31			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An another IMSI differing from Milmsi_01for RR testing, which is shorter than the maximum length.			
Element Name	Element Value	Element Encoding	Comments
iei	–		odd  IMSI is used  4 octets
iel	'05'O		
idigit_1	'0000'B		
oei	'1'B		
toi	'001'B		
idigits_other	'10102143'O		
<b>Detailed Comments</b> : IMSI has 9 digits: '00 10 11 23 4'			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_31iei <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : An another IMSI differing from Milmsi_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
<b>Detailed Comments</b> : IMSI has 9 digits: '00 10 11 23 4'. The iei appears in the messages, e.g. location updating accept.			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_r01 <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : An another IMSI differing from Milmsi_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
<b>Detailed Comments</b> : IMSI has 13 digits: '08 90 12 34 56 78 9'			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Milmsi_r01iei			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An another IMSI differing from Milmsi_01 for RR testing.			
Element Name	Element Value	Element Encoding	Comments
iei	'00010111'B		odd  IMSI is used  6 octets
iel	'07'O		
idigit_1	'0000'B		
oei	'1'B		
toi	'001'B		
idigits_other	'981032547698'O		
<b>Detailed Comments</b> : IMSI has 13 digits: '08 90 12 34 56 78 9'			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiMsi_omit			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : omit MSI for testing.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
idigit_1	–		
oei	–		
toi	–		
idigits_other	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_01			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : default TMSI for testing.			
Element Name	Element Value	Element Encoding	Comments
iei	–		TMSI is used 4 octets long
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		
idigits_other	TSPX_TMSI		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_01iei <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_02 <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_02iei <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_r01			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A TMSI differs from MiTmsi_01			
Element Name	Element Value	Element Encoding	Comments
iei	–		TMSI is used 4 octets long
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'100'B		
idigits_other	OC_IncTmsi(TSPX_TMSI, '01'O)		
<b>Detailed Comments</b> : Note: the TSPX_TMSI + '01'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_r02			
<b>Structured Type</b> : MI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : default TMSI for testing with toi setting to no id.			
Element Name	Element Value	Element Encoding	Comments
iei	–		no identity 4 octets long
iel	'05'O		
idigit_1	'1111'B		
oei	'0'B		
toi	'000'B		
idigits_other	TSPX_TMSI		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MiTmsi_r02iei <b>Structured Type</b> : MI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MobilAllc_01 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_02			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_01.			
<b>Encoding Variation</b> :			
<b>Comments</b> : hopping			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		hopping
iel	'01'O		
mac_8n	'00000010'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_04			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : hopping used in TC_26_6_4_2_2.			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		hopping
iel	'01'O		
mac_8n	'00001110'B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_04man			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : hopping used in TC_26_10_2_5			
Element Name	Element Value	Element Encoding	Comments
iei	–		hopping
iel	'01'O		
mac_8n	'00001110'B		
mac_7n	–		
mac_6n	–		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A0 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A1 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A3d <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_252 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_252d <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_22 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_281			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : hopping with indicates to the ARFCN_list={73,74,75} of cell allocation A.			
Element Name	Element Value	Element Encoding	Comments
iei	–		MoblAllc_281d
iel	'03'O		
mac_8n	'00000000'B		
mac_7n	'00111000'B		
mac_6n	'00000000'B		
mac_5n	–		
mac_4n	–		
mac_3n	–		
mac_2n	–		
mac_1n	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_281d <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_281e <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_281e2 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_282 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_B1 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_B1iei <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_Be1(par_ma: BITSTRING) <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_Be1iei(par_ma: BITSTRING) <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_20_Be1. <b>Encoding Variation</b> : <b>Comments</b> : hopping with par_ma			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_Be2(par_ma1: BITSTRING; par_ma2: BITSTRING) <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_Be2iei(par_ma1: BITSTRING; par_ma2: BITSTRING) <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A2			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : hopping with default Cell Allocation of HO cases and only one frequency in hopping			
Element Name	Element Value	Element Encoding	Comments
iei	–		(114) for GSM or (844) for DCS
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A2iei			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_20_A3 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_omit <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r01 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r02 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r03 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r01. <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iel	'01'O		
mac_8n	'00000001'B		
mac_7n	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r04 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r05 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r06 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r07 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r08			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r09			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r10			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r11 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : used in TC_26_6_13_3 for frequency redefinition			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r12 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r11. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r13			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r14			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r15 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r16 <b>Structured Type</b> : MA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r17			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r18			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r18iei <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05.MoblAllc_r18. <b>Encoding Variation</b> : <b>Comments</b> : used in TC_26_6_13_5 for immediate assignment			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r20 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r21 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r22			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r23			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r24 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r25 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : used in TC_26_6_13_7 for frequency redefinition			
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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r26 <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05. <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r27			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r28			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r29			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : used in TC_26_6_13_8 for frequency redefinition			
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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MobilAllc_r30			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MobilAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MobilAllc_r30iei <b>Structured Type</b> : MA <b>Derivation Path</b> : MobilAllc_r05.MobilAllc_r30. <b>Encoding Variation</b> : <b>Comments</b> : used in TC_26_6_13_8 for HANDOVER COMMAND after time			
Element Name	Element Value	Element Encoding	Comments
iei	'01110010'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MobilAllc_r31			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MobilAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r31iei <b>Structured Type</b> : MA <b>Derivation Path</b> : MoblAllc_r05.MoblAllc_r31. <b>Encoding Variation</b> : <b>Comments</b> : used in TC_26_6_13_8 for HANDOVER COMMAND before time			
Element Name	Element Value	Element Encoding	Comments
iei	'001000001'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r32			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MoblAllc_r33			
<b>Structured Type</b> : MA			
<b>Derivation Path</b> : MoblAllc_r05.			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : MsrResult_05 <b>Structured Type</b> : MSRR <b>Derivation Path</b> : MsrResult_03. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : MsrResult_06 <b>Structured Type</b> : MSRR <b>Derivation Path</b> : MsrResult_03.MsrResult_05. <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : Pcmd_19(powerlevel:BITSTRING)			
<b>Structured Type</b> : PCMD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
sprb	'000'B		spare bits
pl	powerlevel		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Pcmd_20( powerlevel : B_5)			
<b>Structured Type</b> : PCMD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : PowerCmd used in synchronized and non synchronized HO cases.			
Element Name	Element Value	Element Encoding	Comments
sprb	'011'B		spare bits
pl	powerlevel		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : PiSi_01			
<b>Structured Type</b> : PI_SI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : calling party BCD number with arbitrary spare bits			
Element Name	Element Value	Element Encoding	Comments
extb	'1'B		presentation indicator arbitrary spare bits screening indicator
pi	'00'B		
sp3b	'110'B		
si	'00'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Pm( pgm : B_2) <b>Structured Type</b> : PM <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : normal paging mode			
Element Name	Element Value	Element Encoding	Comments
sprb	'00'B		spare bits
pgm	pgm		page mode
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Pm_02 <b>Structured Type</b> : PM <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProcessUSSData_02( Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
invokeld	Invkid		Octet string after the value of invoke ID, has to be set acc. to length IE
comp_part2	follbits		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProcessUSSRequest_02( Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProgInd_omit			
<b>Structured Type</b> : PI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProgInd_01 <b>Structured Type</b> : PI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProgInd_02 <b>Structured Type</b> : PI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProgInd_03 <b>Structured Type</b> : PI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ProgInd_03iei <b>Structured Type</b> : PI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RachCntrlPara(maxtx : B_2; txint : B_4; re : B_1) <b>Structured Type</b> : RACHCP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Default value for L 3 testing.			
Element Name	Element Value	Element Encoding	Comments
maxrtx	maxtx		not barred  access not barred emergency call allowed access not barred
txint	txint		
cba	'0'B		
re	re		
acc_2	'00000'B		
ec	'0'B		
acc_1	'0000000000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RachCntrlPara_01 <b>Structured Type</b> : RACHCP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Default value for L 3 testing.			
Element Name	Element Value	Element Encoding	Comments
maxrtx	'00'B		Max-retrans = 1 TX-integer=5 not barred reestablishment allowed access not barred emergency call allowed access not barred
txint	'0010'B		
cba	'0'B		
re	'0'B		
acc_2	'00000'B		
ec	'0'B		
acc_1	'0000000000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RachCntrlPara_r01 <b>Structured Type</b> : RACHCP <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegisterSSRslt_01(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2210201'O		Octet string before the value of invoke ID
invokeld	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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegisterSSRslt_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID  value of invoke id
invokeld	id		
comp_part2	'308002010AA08004012130803080830160840107850581003421430000000000000000000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegisterSSErr_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegisterSSRej_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A4800201'O		Octet string before the value of invoke ID
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegPasswdSSRslt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID
invokeld	id		value of invoke id
comp_part2	'308002011112043938373600000000'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegPasswdSSErr_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegPasswdSSErr_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RegPasswdSSErr_03(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3090201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI3RestOctetDef			
<b>Structured Type</b> : SI3RO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI3RestOctet2ter <b>Structured Type</b> : SI3RO <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI3RestOctet_inv <b>Structured Type</b> : SI3RO <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI4RestOctetDef <b>Structured Type</b> : SI4RO <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI4RestOctet_CBMS <b>Structured Type</b> : SI4RO <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SI4RestOctet_inv			
<b>Structured Type</b> : SI4RO			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SerialNumber_01			
<b>Structured Type</b> : SERIAL_NUMBER			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SerialNumber_02 <b>Structured Type</b> : SERIAL_NUMBER <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SerialNumber_03 <b>Structured Type</b> : SERIAL_NUMBER <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : USSDReq_01( Invkid : OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING; ussdString: IA5String)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ReturnResult for Process Unstructured SS request			
Element Name	Element Value	Element Encoding	Comments
comp_part1	prevbits		Octet string before the value of invoke ID
invokeld	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	–		
<b>Detailed Comments</b> :			

### 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
invokeld	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			
<b>Constraint Name</b> : USSDReq_06(Invkid : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Unstructured SS – Request			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2030201'O		Octet string before the value of invoke ID arbitrarily chosen
invokeld	Invkid		
comp_part2	–		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : EraseSSRslt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A21D0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'301802010BA0800401283080308083016084010400000000000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : EraseSSRslt_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2140201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'300F02010BA00A04012B30053003840104'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : EraseSSErr_01(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : EraseSSRej_01(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A4800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSRsIt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CF all synchronous services			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'301402010CA0800401203008300682016884010700000000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSRsIt_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFU all basic services			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2180201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'308002010CA0800401213005300384010700000000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSRsIt_03(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BAOC all synchronous services			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A21B0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'308002010CA180040192300830068201688401070000000'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSRslt_04(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 value of invoke id mixed form
invokeld	id		
comp_part2	'301302010CA10E04019B3080308084010700000000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSErr_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BOIC			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID  value of invoke id
invokeld	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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : ActivateSSErr_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BOIC			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSRsIt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFC speech			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A21B0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'301602010DA080040128308030068301108401060000000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSRsIt_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFNRc all facsimile			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2190201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'301402010DA00F04012B300A30808301608401060000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSRsIt_03(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : DeactivateSSRsIt for Speech			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'300C02010DA107300530038301100000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSRsIt_04(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : DeactivateSSRsIt for all facsimile			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	id		
comp_part2	'300C02010DA107300530038301600000'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSErr_01(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : DeactivateSSErr_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_01			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1270201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A11881013C8202008C830164840200FA850100860100870202580000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

### 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 abitrarily chosen
invokeld	'00'O		
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			
<b>Constraint Name</b> : FwdChAdvSS_03			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1290201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A11A8 10209C4820200A0830200 C88402138885010086010 0870202580000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			



### 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 abitrarily chosen
invokeld	'00'O		
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			
<b>Constraint Name</b> : FwdChAdvSS_05			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1270201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_06			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1240201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1158 1010082010083010084010 0850100860100870100000 0'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_07			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1250201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
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	–		
<b>Detailed Comments</b> :			

### 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 abitrarily chosen
invokeld	'00'O		
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			
<b>Constraint Name</b> : FwdChAdvSS_09			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1240201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1158 1010A82010A8301648401 0085010086010087010A00 00'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

### 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 abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1188 1017D8202012C83016484 0200FA8501008601008702 012C0000'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			
<b>Constraint Name</b> : FwdChAdvSS_11			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1260201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1178 1016482020118830164840 1648501008601008702025 80000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_12			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1260201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1178 101648202008C83016484 0132850100860100870202 580000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_13			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1250201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_14			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1190201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3011800172A1808 1016482020190830164000 0'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_15			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1250201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
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	–		
<b>Detailed Comments</b> :			

### 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 abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1178 1020082820201908301648 4010085010086010087010 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** : 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 abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1178 10200BE82020190830164 8401008501008601008701 000000'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			
<b>Constraint Name</b> : FwdChAdvSS_18			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1260201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D3080800172A1178 1020122820201908301648 4010085010086010087010 00000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : FwdChAdvSS_19			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : AoC– Charging			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1800201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D301B800172A1168 1016482020226830164840 1648501008601008701640 000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			



### 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 abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D301B800172A1168 1010A8202012C83016484 0100850100860100870100 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			
<b>Constraint Name</b> : FwdChAdvSS_21			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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  abitrarily chosen
invokeld	'00'O		
comp_part2	'02017D301A800172A1158101008201008301008401008501008601008701000000'O		
comp_part3	–		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : GetPasswdSS_01(linkid : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : getpassword			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A10C0201'O		Octet string before the value of invoke ID abitrarily chosen  linked ID
invokeld	'00'O		
comp_part2	'8001'O		
comp_part3	linkid		
comp_part4	'0201120A0100'O		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : GetPasswdSS_02(linkid : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : getpassword (enter new password)			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A10C0201'O		Octet string before the value of invoke ID abitrarily chosen  linked ID enter new password
invokeld	'00'O		
comp_part2	'8001'O		
comp_part3	linkid		
comp_part4	'0201120A0101'O		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : GetPasswdSS_03(linkid : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : getpassword (enter new password again)			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A10C0201'O		Octet string before the value of invoke ID abitrarily chosen  linked ID
invokeld	'00'O		
comp_part2	'8001'O		
comp_part3	linkid		
comp_part4	'0201120A0102'O		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSRslt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFB all basic services			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A20D0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	–		
<b>Detailed Comments</b> :			

### 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		
invokeld	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 0.1)
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			
<b>Constraint Name</b> : InterrogateSSRsIt_03(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BAIC			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A20D0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSRsIt_04(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BAIC			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A20B0201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSErr_01(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : CFNRc			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSErr_02(id : OCTETSTRING) <b>Structured Type</b> : Component_T <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A3800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSRej_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A4800201'O		Octet string before the value of invoke ID
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : InterrogateSSRej_02(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A4060201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_01			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : incoming call forwarded.			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1100201'O		Octet string before the value of invoke ID abitrarily chosen
invokeld	'01'O		
comp_part2	'02011030808101298501020000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_02			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFU provisioned, registered and active			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1800201'O		Octet string before the value of invoke ID abitrarily chosen
invokeld	'00'O		
comp_part2	'02011030068101218401070000'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_03			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFC provisioned, registered and active			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1100201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'01'O		
comp_part2	'02011030808101288401070000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_04			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CFNRc forwarded call			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1800201'O		Octet string before the value of invoke ID  abitrarily chosen
invokeld	'00'O		
comp_part2	'020110300681012B8501010000'O		
comp_part3	-		
comp_part4	-		
comp_part5	-		
comp_part6	-		
comp_part7	-		
comp_part8	-		
comp_part9	-		
comp_part10	-		
comp_part11	-		
comp_part12	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_05			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : BI			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A10E0201'O		Octet string before the value of invoke ID abitrarily chosen
invokeld	'00'O		
comp_part2	'0201103006810199840107'O		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_06(Invkid : OCTETSTRING; ussdstring: IA5String)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : UnstructuredSS–Notify			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A1140201'O		Octet string before the value of invoke ID arbitrarily chosen
invokeld	Invkid		
comp_part2	'02013D0F'O		string "Transaction OK" arbitrarily chosen 14 characters = 98 bits → 13 octets
comp_part3	OC_CodingOfUssdString(ussdstring)		
comp_part4	–		
comp_part5	–		
comp_part6	–		
comp_part7	–		
comp_part8	–		
comp_part9	–		
comp_part10	–		
comp_part11	–		
comp_part12	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : NotificationSS_08(Invkid : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : UnstructuredSS-Notify			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2030201'O		Octet string before the value of invoke ID arbitrarily chosen
invokeld	Invkid		
comp_part2	—		
comp_part3	—		
comp_part4	—		
comp_part5	—		
comp_part6	—		
comp_part7	—		
comp_part8	—		
comp_part9	—		
comp_part10	—		
comp_part11	—		
comp_part12	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : BuildMptySSRslt_01(id : OCTETSTRING)			
<b>Structured Type</b> : Component_T			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ReturnResult for buildMPTY			
Element Name	Element Value	Element Encoding	Comments
comp_part1	'A2800201'O		Octet string before the value of invoke ID value of invoke id
invokeld	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	-		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RelTmdDif_omit <b>Structured Type</b> : TDIF <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	–		
value	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RelTmdDif_01 (ta_a: INTEGER)			
<b>Structured Type</b> : TDIF			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : ta_a: timing advance value in cell A.			
Element Name	Element Value	Element Encoding	Comments
iei	'01111011'B		OCTETSTRING [1]  one unit = 24/13 microseconds (in half bit periods)
iel	'01'O		
value	OC_IntToOct(((2*ta_a + 10) MOD 256), 1)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Rqr1(Rr: BITSTRING; Fn: FN) <b>Structured Type</b> : RQR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Rqr2(Rr: BITSTRING; Fn: FN) <b>Structured Type</b> : RQR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : To address the MS under test			
Element Name	Element Value	Element Encoding	Comments
ra	Rr		
fn	Fn		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Rqr3 <b>Structured Type</b> : RQR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : not pertaining to the MS under test			
Element Name	Element Value	Element Encoding	Comments
ra	'00000000'B		
fn	Fn_01		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Signal_01 <b>Structured Type</b> : SIGNAL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : signal value is arbitrarily selected.			
Element Name	Element Value	Element Encoding	Comments
iei	'00110100'B		
sigv	'00000000'B		dial tone on
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Signal_02 <b>Structured Type</b> : SIGNAL <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : StartingTm_01(fn : FN) <b>Structured Type</b> : STRT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'01111100'B		
fn	fn		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : StartingTm_omit <b>Structured Type</b> : STRT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
fn	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SubAdd_01 <b>Structured Type</b> : SUBAD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Synchi_omit <b>Structured Type</b> : SYNCHI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
nci	–		
rot	–		
si	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Synchi( rot : B_1; si : B_2)			
<b>Structured Type</b> : SYNCHI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	'1101'B		ignore out of range TA report observed time difference synchronisation type
nci	'0'B		
rot	rot		
si	si		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : Synchi_01 <b>Structured Type</b> : SYNCHI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TimingAdv( bits : INTEGER) <b>Structured Type</b> : TA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TimingAdv_iei( bits : INTEGER) <b>Structured Type</b> : TA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TimingAdv_inv			
<b>Structured Type</b> : TA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : containing arbitrary spare bits			
Element Name	Element Value	Element Encoding	Comments
iei	–		arbitrary spare bits
sprb	'11'B		
value	'000000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TimingAdv_omit			
<b>Structured Type</b> : TA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Time Advance value is pameterized.			
Element Name	Element Value	Element Encoding	Comments
iei	–		
sprb	–		
value	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_01			
<b>Structured Type</b> : TI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used by the MS in the transaction initiated by the test system.			
Element Name	Element Value	Element Encoding	Comments
ti_f	'1'B		TI value
ti_v	'000'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_02 <b>Structured Type</b> : TI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_03 <b>Structured Type</b> : TI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_04 <b>Structured Type</b> : TI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : arbitrary value			
Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		
ti_v	'011'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_05			
<b>Structured Type</b> : TI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_06			
<b>Structured Type</b> : TI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		network to the MS
ti_v	'111'B		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_07(ti:TI_V)			
<b>Structured Type</b> : TI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 value
ti_v	ti		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_08(ti : TI_V) <b>Structured Type</b> : TI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TI_09			
<b>Structured Type</b> : TI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used by the MS in the transaction initiated by the MS.			
Element Name	Element Value	Element Encoding	Comments
ti_f	'0'B		TI value is selected by the MS when it starts the transaction
ti_v	?		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tmsi_01			
<b>Structured Type</b> : TMSI			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		default TMSI for testing
tmsi_val	TSPX_TMSI		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tmsi_r01 <b>Structured Type</b> : TMSI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '01'O)		no address the MS under test
<b>Detailed Comments</b> : Note: the TSPX_TMSI + '01'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tmsi_r03 <b>Structured Type</b> : TMSI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '02'O)		
<b>Detailed Comments</b> : Note: the TSPX_TMSI + '02'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tmsi_r04 <b>Structured Type</b> : TMSI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei tmsi_val	– OC_IncTmsi(TSPX_TMSI, '03'O)		
<b>Detailed Comments</b> : Note: the TSPX_TMSI + '03'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tmsi_r05 <b>Structured Type</b> : TMSI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
tmsi_val	OC_IncTmsi(TSPX_TMSI, '04'O)		
<b>Detailed Comments</b> : Note: the TSPX_TMSI + '04'O shall not be identical to TSPX_TMSI1			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TonNpi_01 <b>Structured Type</b> : TON_NPI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
extb	'0'B		extension bit
ton	'000'B		Type of number
npi	'0000'B		Numbering plan id
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TonNpi_02 <b>Structured Type</b> : TON_NPI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
extb	'1'B		extension bit
ton	'000'B		Type of number
npi	'0000'B		Numbering plan id
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TonNpi_03 <b>Structured Type</b> : TON_NPI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
extb	'1'B		extension bit
ton	'001'B		Type of number
npi	'0001'B		Numbering plan id
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TonNpi_04 <b>Structured Type</b> : TON_NPI <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
extb	'1'B		extension bit
ton	?		Type of number
npi	?		Numbering plan id
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : UnknownIE_01			
<b>Structured Type</b> : UNKWN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An invalid IE coded as comprehension required .			
Element Name	Element Value	Element Encoding	Comments
iei	'00000000'B		length = 1 arbitrary contents
iel	'01'O		
contents	'54'O		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : UnknownIE_02			
<b>Structured Type</b> : UNKWN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An invalid FIE coded as unknown IE.			
Element Name	Element Value	Element Encoding	Comments
iei	'01001100'B		length = 1 arbitrary contents
iel	'01'O		
contents	'FF'O		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : UnknownIE			
<b>Structured Type</b> : CHD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : used as unkown IE			
Element Name	Element Value	Element Encoding	Comments
iei	'01101001'B		length length arbitrary contents
cht_schn	'00000'B		
tn	'010'B		
tsc	'101'B		
hch	'1'B		
maio	'001100'B		
hsn	'101010'B		
spr	—		
arfcn	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_01(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((( 159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpck	–		
rpdata	RpData_01( rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_02(rpmr: MR) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpck	RpAck_01(rpmr)		
rpdata	–		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_03(rpdat : RPDATA) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	rpdat		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_04(rpmr: MR) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	'02'O		
rpack	RpAck_02(rpmr)		
rpdata	–		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_05(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpck	–		
rpdata	RpData_05( rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_06(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct((159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpck	–		
rpdata	RpData_06( rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_07(rpmr: MR)			
<b>Structured Type</b> : CPDATA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : RP Error: Protocol Error, unspecified			
Element Name	Element Value	Element Encoding	Comments
iei	–		Protocol error, unspecified
iel	?		
rpack	–		
rpdata	–		
rperr	RpError_01(rpmr)		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_08(rpmr: MR)			
<b>Structured Type</b> : CPDATA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : RP Error: Memory Capability Exceeded			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	–		
rperr	RpError_02(rpmr)		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_09			
<b>Structured Type</b> : CPDATA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : RP_SMAA			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	–		
rperr	–		
rpsmma	RpSMMA_01		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_10(tpoa1, rpoa_mt:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct(( 159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpck	–		
rpdata	RpData_07( rpoa_mt, tpoa1, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_12(tpda, rpoa_mt:BCDN; tpmr: MR; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
rpck	–		
rpdata	RpData_09( rpoa_mt, tpda, tpmr, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_15(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct(( 159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpac	–		
rpdata	RpData_12( tpoa1, rpoa_mt, smtype, text, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_16(tpoa1: BCDN; rpoa_mt: BCDN; text: IA5String; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	OC_IntToOct(( 159 + OC_LengthOfBCDN( tpoa1) + OC_LengthOfBCDN( rpoa_mt)), 1)		
rpac	–		
rpdata	RpData_13( tpoa1, rpoa_mt, text, rpmr, timezone)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : CpData_17(tpda,rpda : BCDN; tpud: TPUD) <b>Structured Type</b> : CPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		
iel	?		
rpack	–		
rpdata	RpData_14(tpda, rpda,tpud)		
rperr	–		
rpsmma	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_01(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : n->ms			
Element Name	Element Value	Element Encoding	Comments
sprb	'00000'B		spare 5 bits M
rpm ti	'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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_03 <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_05(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_06(rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)			
<b>Structured Type</b> : RPDATA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_07( rpoa_mt, tpoa1:BCDN; rpmr: MR; timezone : TZONES)			
<b>Structured Type</b> : RPDATA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_08 <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_09(rpoa_mt, tpda:BCDN; tpmr: MR; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_11(rpmr: MR; tpcom : SMCMD) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_12(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_13(tpoa: BCDN; rpoa_mt: BCDN; text: IA5String; rpmr: MR; timezone : TZONES) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpData_14(tpda: BCDN; rpda: BCDN; tpud: TPUD) <b>Structured Type</b> : RPDATA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpAck_01(rpmr: MR) <b>Structured Type</b> : RPACK <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpAck_02(rpmr: MR) <b>Structured Type</b> : RPACK <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpError_01(rpmr: MR) <b>Structured Type</b> : RPERR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpError_02(rpmr: MR) <b>Structured Type</b> : RPERR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpCause_01 <b>Structured Type</b> : RPCAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpCause_02 <b>Structured Type</b> : RPCAU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpSMMA_01 <b>Structured Type</b> : RPSMMA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : ms->n			
Element Name	Element Value	Element Encoding	Comments
sprb	'00000'B		spare 5 bits M
rpmti	'110'B		n -> ms
rpmr	?		message reference
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_01(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_02 <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01000001'B
iel	?		
tpdeliver	–		
tpsubmit	TpSubmit_01		
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_03(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_04(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_05(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_06 <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01000001'B
iel	?		
tpdeliver	–		
tpsubmit	TpSubmit_02		status report requested
tpstatus_rpt	–		
tpcommand	–		
tpdlvr_sbmt_rpt	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_07( tpda:BCDN; mr: MR; timezone : TZONES)			
<b>Structured Type</b> : RPUSRDAT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_09(tpcom : SMCMD)			
<b>Structured Type</b> : RPUSRDAT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : SMS–COMMAND(Delete)			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01000001'B
iel	?		
tpdeliver	–		
tpsubmit	–		
tpstatus_rpt	–		
tpcommand	tpcom		
tpdlvr_sbmt_rpt	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_10(tpoa1: BCDN; smtype: INTEGER; text: IA5String; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_11(tpoa1: BCDN; text: IA5String; timezone : TZONES) <b>Structured Type</b> : RPUSRDAT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpUsrData_12(tpda: BCDN; tpud: TPUD)			
<b>Structured Type</b> : RPUSRDAT			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
iei	—		'01000001'B
iel	?		
tpdeliver	—		
tpsubmit	TpSubmit_03(tpda,tpud)		
tpstatus_rpt	—		
tpcommand	—		
tpdlvr_sbmt_rpt	—		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_01(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : SMDLVR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_02(tpoa1:BCDN; timezone : TZONES)			
<b>Structured Type</b> : SMDLVR			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_03(tpoa1:BCDN; timezone : TZONES)			
<b>Structured Type</b> : SMDLVR			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_04(tpoa1:BCDN; timezone : TZONES) <b>Structured Type</b> : SMDLVR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_05(tpoa: BCDN; smtype: INTEGER; text: IA5String; timezone : TZONES) <b>Structured Type</b> : SMDLVR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpDeliver_06(tpoa: BCDN; text: IA5String; timezone : TZONES) <b>Structured Type</b> : SMDLVR <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpSubmit_01 <b>Structured Type</b> : SMSBMT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpSubmit_02 <b>Structured Type</b> : SMSBMT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpSubmit_03(tpda: BCDN; tpud: TPUD) <b>Structured Type</b> : SMSBMT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpStatusReport_01( tpda : BCDN; mr: MR; timezone : TZONES) <b>Structured Type</b> : SMST_RPT <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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)		receipient address
scts	OC_GetSCTimeStamp( timezone)		service centre time stamp
dt	OC_GetSCTimeStamp( timezone)		TP discharge time
st	TpStatus_01		TP status
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SmOrigAddr_01(tpoa1:BCDN) <b>Structured Type</b> : TPA <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SmOrigAddr_02(tpoa: BCDN)			
<b>Structured Type</b> : TPA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		ton: international, np: ISDN/tel. E.164
tonnpi	TonNpi_03		
digits	tpoa		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SmDestAddr_01			
<b>Structured Type</b> : TPA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	?		ton: international, np: ISDN/tel. E.164
tonnpi	TonNpi_04		
digits	?		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SmDestAddr_02(tpda: BCDN)			
<b>Structured Type</b> : TPA			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		ton: international, np: ISDN/tel. E.164
tonnpi	TonNpi_03		
digits	tpda		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpOrigAddr_01(rpoa_mt: BCDN) <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpOrigAddr_02 <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpOrigAddr_03(rpoa: BCDN) <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpDestAddr_01 <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpDestAddr_02 <b>Structured Type</b> : CDPN <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : RpDestAddr_03(rpda: BCDN)			
<b>Structured Type</b> : CDPN			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : SMSCBdata(b1, b2, b3, b4: OCTETSTRING) <b>Structured Type</b> : SMSCBpack <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tppid_01 <b>Structured Type</b> : TPPID <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tppid_02(smtype: INTEGER)			
<b>Structured Type</b> : TPPID			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tpdcs_01			
<b>Structured Type</b> : TPDCS			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tpdcs_02			
<b>Structured Type</b> : TPDCS			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tpdcs_03 <b>Structured Type</b> : TPDCS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tpdcs_04 <b>Structured Type</b> : TPDCS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : Tpdcs_05 <b>Structured Type</b> : TPDCS <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpStatus_01 <b>Structured Type</b> : TPST <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Short message received by the SME			
Element Name	Element Value	Element Encoding	Comments
sprb1	'0'B		spare bit
value	'0000000'B		status value/usage
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpCommand_01(tpmr: MR) <b>Structured Type</b> : SMCMD <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : TpCommand_02(tpmr: MR)			
<b>Structured Type</b> : SMCMD			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : UuInfo_omit			
<b>Structured Type</b> : UU			
<b>Derivation Path</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Omitted UuInfo.			
Element Name	Element Value	Element Encoding	Comments
iei	–		'01111110'B
iel	–		
uupd	–		user–user protocol discriminator
uui	–		user user information
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : UuInfo <b>Structured Type</b> : UU <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> : Delete previously submitted short message			
Element Name	Element Value	Element Encoding	Comments
iei	'01111110'B		'01111110'B
iel	OC_IntToOct(1+ OC_LengthOfOct(TSPX_Uu Info), 1)		
uupd	TSPX_Uupd		user-user protocol discriminator
uui	TSPX_UuInfo		user user information
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V21OrAbt1 <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00001'B, '01000'B)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V22OrAbt1 <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00010'B, '01000'B)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V23OrAbt1 <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00100'B, '01000'B)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V22bisOrV26ter <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00011'B, '00101'B)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V22bisOrV26terOrAbt1 <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00011'B, '00101'B, '01000'B)		
<b>Detailed Comments</b> :			

Structured Type Constraint Declaration			
<b>Constraint Name</b> : V32OrAbt1 <b>Structured Type</b> : MODEMTYPE <b>Derivation Path</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Element Name	Element Value	Element Encoding	Comments
v_abt1	('00110'B, '01000'B)		
<b>Detailed Comments</b> :			

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ActivateSS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CF all synchronous services
Constraint Value	
activateSSComponents	activateSS_InvokeComp { invokeID           ?, localValue        12, ss_ForBS           { ss_Code         '20'H, basicService   bearerService   '68'H } }
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ActivateSS_02
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFU all basic services
Constraint Value	
activateSSComponents	activateSS_InvokeComp { invokeID           ?, localValue        12, ss_ForBS           { ss_Code         '21'H } }
<b>Detailed Comments</b> :	

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	
<b>Constraint Name</b>	: ActivateSS_05
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: BOIC
Constraint Value	
activateSSComponents	activateSS_InvokeComp <pre>           {             invokeID      ?,             localValue    12,             ss_ForBS               {                 ss_Code    '93'H               }           }           </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ActivateSS_06
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: BAIC
Constraint Value	
activateSSComponents	activateSS_InvokeComp <pre>           {             invokeID      ?,             localValue    12,             ss_ForBS               {                 ss_Code    '9A'H               }           }           </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: BldMptySS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: build multiparty request
Constraint Value	
buildMPTYComponents	buildMPTY_InvokeComp <pre>           {             invokeID      ?,             localValue    124           }           </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: Comps_01( comp : Component)
<b>ASN1 Type</b>	: Components
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: A received FIE may contain several components, but at least contains "comp".
Constraint Value	
SUPERSET({ comp})	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
Constraint Name	: DeactivateSS_01
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	: CFC for speech
Constraint Value	
deactivateSSComponents	<div>deactivateSS_InvokeComp<div>{<div>invokeID<div>?</div>,<div>localValue<div>13</div>,<div>ss_ForBS<div>{<div>ss_Code<div>'28'H</div>,<div>basicService<div>teleservice</div><div>'10'H</div></div></div></div></div></div></div></div></div>
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	<div>deactivateSS_InvokeComp<div>{<div>invokeID<div>?</div>,<div>localValue<div>13</div>,<div>ss_ForBS<div>{<div>ss_Code<div>'2B'H</div>,<div>basicService<div>teleservice<div>'60'H</div></div></div></div>}</div></div>}</div></div></div></div>
Detailed Comments	:



ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: DeactivateSS_03
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: deactivation for barring
Constraint Value	
deactivateSSComponents	deactivateSS_InvokeComp <pre>           {             invokeID      ?,             localValue    13,             ss_ForBS               {                 ss_Code   '90'H,                 basicService teleservice '10'H               }           }           </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: DeactivateSS_04
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: deactivation for barring of outgoing calls
Constraint Value	
deactivateSSComponents	deactivateSS_InvokeComp <pre>           {             invokeID      ?,             localValue    13,             ss_ForBS               {                 ss_Code   '91'H,                 basicService teleservice '60'H               }           }           </pre>
<b>Detailed Comments</b> :	

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	
<b>Constraint Name</b>	: EraseSS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFC for all facsimile
Constraint Value	
eraseSSComponents	eraseSS_InvokeComp <pre> {   invokeID          ?,   localValue        11,   ss_ForBS     {       ss_Code      '28'H,       basicService teleservice '60'H     } } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: EraseSS_02
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFNRc for all basic services
Constraint Value	
eraseSSComponents	eraseSS_InvokeComp <pre> {   invokeID          ?,   localValue        11,   ss_ForBS     {       ss_Code      '2B'H     } } </pre>
<b>Detailed Comments</b> :	

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 <div><div>{     invokeID                  ?,     localValue                11,     ss_ForBS         {             ss_Code    '21'H,             basicService  teleservice  '10'H         }     } }</div></div>
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 <div><div>{     invokeID                  ?,     localValue                11,     ss_ForBS         {             ss_Code    '2A'H,             basicService  teleservice  '60'H         }     } }</div></div>
Detailed Comments :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: FwdChAdvRslt_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
forwardChargeAdviceComponents	forwardChargeAdvice_ReturnResultComp
<pre>{                                 invokeID      0,                                 result         * }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: GetPasswdRslt_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
getPasswordComponents	getPassword_ReturnResultComp
<pre>{     invokeID      0,     result        {         localValue 18,         currentPassword "1234"     } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
Constraint Name	: GetPasswdRslt_02
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
getPasswordComponents	getPassword_ReturnResultComp <pre>{   invokeID      0,   result   {     localValue    18,     currentPassword "9876"   } }</pre>
Detailed Comments	:

ASN.1 Type Constraint Declaration	
Constraint Name	: GetPasswdRslt_03
ASN1 Type	: Component
Derivation Path	:
Encoding Variation	:
Comments	:
Constraint Value	
getPasswordComponents	getPassword_ReturnResultComp <pre>{   invokeID      0,   result   {     localValue    18,     currentPassword "9877"   } }</pre>
Detailed Comments	:

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: InterrogateSS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFB for all basic services
Constraint Value	
interrogateSSComponents	interrogateSS_InvokeComp {
invokeID	?,
localValue	14,
ss_ForBS {	
}	ss_Code '29'H
}	}
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: InterrogateSS_02
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFNRy for Speech
Constraint Value	
interrogateSSComponents	interrogateSS_InvokeComp
	{
	invokeID
	?,
	localValue
	14,
	ss_ForBS
	{
	ss_Code '2A'H, --CNFRy
	basicService teleservice '10'H
	}
	}
<b>Detailed Comments</b> :	

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	
<b>Constraint Name</b>	: InterrogateSS_05
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: BICRoam
Constraint Value	
interrogateSSComponents	interrogateSS_InvokeComp { invokeID                  ?, localValue                14, ss_ForBS                  { ss_Code          '9B'H } }
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: InterrogateSS_06
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: BOIC
Constraint Value	
interrogateSSComponents	interrogateSS_InvokeComp { invokeID                  ?, localValue                14, ss_ForBS                  { ss_Code          '93'H } }
<b>Detailed Comments</b> :	

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	
<b>Constraint Name</b>	: NotificationSS_07(Invkid: OCTETSTRING)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
unstructuredSSNotifyComponents	<pre>unstructuredSSNotify_ReturnResultComp {   invokeID      OC_OctToInvokeIDType(Invkid),   result   {     localValue   61   } }</pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: NotificationSS_09(Invkid: OCTETSTRING)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
unstructuredSSNotifyComponents	<pre>unstructuredSSNotify_ReturnErrorComp     errorCodes     {       invokeID      OC_OctToInvokeIDType(Invkid),       errorCode     ussd_Busy     }</pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RegisterSS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFNRy Speech
Constraint Value	
registerSSComponents	<pre> 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                                 }   } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RegisterSS_02
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFU
Constraint Value	
registerSSComponents	<pre> registerSS_InvokeComp {   invokeID      ?,   localValue    10,   registerSS_Arg {                                 ss_Code      '21'H,                                 basicService teleservice '60'H,                                 forwardedToNumber '8100342143'H                                 -- Unknown Number/ISDN telephony + '00431234'   } } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RegisterSS_03
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CFB
Constraint Value	
<pre> registerSSComponents  registerSS_InvokeComp  {   invokeID            ?,   localValue          10,   registerSS_Arg      {                                 ss_Code          '29'H,                                 basicService  bearerService  '60'H,                                 forwardedToNumber  '8100342143'H                                 -- Unknown Number/ISDN telephony + '00431234'   } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RegisterSS_04
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: CF for all facsimile
Constraint Value	
<pre> registerSSComponents  registerSS_InvokeComp  {   invokeID            ?,   localValue          10,   registerSS_Arg      {                                 ss_Code          '20'H,                                 basicService  teleservice  '60'H,                                 forwardedToNumber  '8100342143'H                                 -- Unknown Number/ISDN telephony + '00431234'   } }</pre>	
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: RegPasswdSS_01
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: All call restriction services.
Constraint Value	
registerPasswordComponents	<pre> registerPassword_InvokeComp {     invokeID          ?,     localValue        17,     ss_Code           '90'H } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ProcessUSSData_01(ussdString: IA5String)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
processUnstructuredSSDataComponents	<pre> processUnstructuredSSData_InvokeComp {     invokeID          ?,     localValue        19,     ss_UserData       ussdString } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: ProcessUSSDReq_01(ussdString: IA5String)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	:
Constraint Value	
processUnstructuredSSRequestComponents	<pre> processUnstructuredSSRequest_InvokeComp {     invokeID          ?,     localValue        59,     ussd_Arg          {         ussd_DataCodingScheme  'F0'O,         ussd_String            OC_CodingOfUssdString(ussdString)     } } </pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: USSDReq_04( Invkid : OCTETSTRING; ussdString: IA5String)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: ReturnResult for Unstructured SS request
Constraint Value	
unstructuredSSRequestComponents	unstructuredSSRequest_ReturnResultComp <pre>           {             invokeID      OC_OctToInvokeIDType(Invkid),             result             {               localValue    60,               ussd_Res               {                 ussd_DataCodingScheme 'F0'O,                 ussd_String OC_CodingOfUssdString(ussdString)               }             }           }</pre>
<b>Detailed Comments</b> :	

ASN.1 Type Constraint Declaration	
<b>Constraint Name</b>	: USSDReq_05( Invkid : OCTETSTRING)
<b>ASN1 Type</b>	: Component
<b>Derivation Path</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: Return Error for UnstructuredSS–Request with the error code USSD Busy
Constraint Value	
unstructuredSSRequestComponents	unstructuredSSRequest_ReturnErrorComp <pre>           errorCodes           {             invokeID      OC_OctToInvokeIDType(Invkid),             errorCode      ussd_Busy           }</pre>
<b>Detailed Comments</b> :	

ASP Constraint Declaration		
<b>Constraint Name</b> : Abort( ch: LOGICCH; pdu : ABRT_PDU) <b>ASP Type</b> : DL_DatRqAbrt <b>Derivation Path</b> : <b>Comments</b> : To send an Abort message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AlertRcv(pdu: ALERT_PDU) <b>ASP Type</b> : DL_DatInAlert <b>Derivation Path</b> : <b>Comments</b> : To receive an ALERTING message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AlertSnd( ch : LOGICCH; pdu: ALERT_PDU) <b>ASP Type</b> : DL_DatRqAlert <b>Derivation Path</b> : <b>Comments</b> : To send an ALERTING message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : AssCmd(ch : LOGICCH; pdu: ASS_CMD_PDU) <b>ASP Type</b> : DL_DatRqAssCmd <b>Derivation Path</b> : <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AssCmp(ch : LOGICCH; pdu : ASS_COM_PDU) <b>ASP Type</b> : DL_DatInAssCom <b>Derivation Path</b> : <b>Comments</b> : To match any received ASSIGNMENT COMPLETE message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AssFI_02(ch : LOGICCH) <b>ASP Type</b> : DL_DatInAssfl <b>Derivation Path</b> : <b>Comments</b> : protocol error undefined		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	AssgnFI_02	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AssFI_any_cau(ch: LOGICCH) <b>ASP Type</b> : DL_DatInAssfl <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch AssgnFI_01 ?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AuthReq(ch: LOGICCH; pdu: AUTH_RQ_PDU) <b>ASP Type</b> : DL_DatRqAuthRq <b>Derivation Path</b> : <b>Comments</b> : To send an AUTHENTICATION REQUEST message with default values.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AuthReq_inv_01(ch: LOGICCH; rand : RAND) <b>ASP Type</b> : DL_DatRqAuthRq <b>Derivation Path</b> : <b>Comments</b> : To send an AUTHENTICATION REQUEST message containing arbitrary spare bits		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch AuthRequest_inv_01( rand)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AuthRejSnd( ch: LOGICCH; pdu : AUTH_REJ_PDU) <b>ASP Type</b> : DL_DatRqAuthRej <b>Derivation Path</b> : <b>Comments</b> : To send an AUTHENTICATION REJECT message with default values.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : AuthRes(pdu: AUTH_RES_PDU) <b>ASP Type</b> : DL_DatInAuthRes <b>Derivation Path</b> : <b>Comments</b> : To match any received AUTHENTICATION RESPONSE message which contains any SRES.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CallCfm( pdu: CALL_CO_PDU) <b>ASP Type</b> : DL_DatInCallCo <b>Derivation Path</b> : <b>Comments</b> : To receive a CC CALL CONFIRMED message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CallProc(ch: LOGICCH; pdu: CALL_PROC_PDU)		
<b>ASP Type</b> : DL_DatRqCallProc		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a CALL PROCEEDING message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CCStRcv(ch: LOGICCH; pdu : CCST_PDU)		
<b>ASP Type</b> : DL_DatInCcst		
<b>Derivation Path</b> :		
<b>Comments</b> : To match any received STATUS message with TI = Ti.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CCStSnd(ch: LOGICCH; pdu : CCST_PDU)		
<b>ASP Type</b> : DL_DatRqCcst		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CCStESnd(ch: LOGICCH; pdu: CCST_ENQ_PDU)		
<b>ASP Type</b> : DL_DatRqCcstEnq		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a STATUS ENQUIRY message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChmmoAckRcv(ch : LOGICCH; msg : CHMMO_ACK_PDU)		
<b>ASP Type</b> : DL_DatInChmmoAck		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChmmoReqSnd(ch : LOGICCH; msg : CHMMO_PDU)		
<b>ASP Type</b> : DL_DatRqChmmo		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChRel(ch: LOGICCH; pdu: CH_REL_PDU)		
<b>ASP Type</b> : DL_DatRqChRel		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a CHANNEL RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChRel_inv( ch : LOGICCH)		
<b>ASP Type</b> : DL_DatRqChRelErr		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> : used in TC_26_5_6_3		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChReq(pdu: CH_RQ_PDU)		
<b>ASP Type</b> : DL_RacInChRq		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a primitive containing a CHANNEL REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
fn	?	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ChReq_01(ch : LOGICCH; pdu : CH_RQ_PDU)		
<b>ASP Type</b> : DL_RacInChRq		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a CHANNEL REQUEST message in cell B		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
fn	?	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ClassChgURcv( pdu : CLM_CHN_PDU) <b>ASP Type</b> : DL_UdatInClnChn <b>Derivation Path</b> : <b>Comments</b> : 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	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ClassChgDRcv( pdu : CLM_CHN_PDU)		
<b>ASP Type</b> : DL_DatInClnChn		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ClassMkEnq_01(ch: LOGICCH) <b>ASP Type</b> : DL_DatRqCImEnq <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	ClassMarkEnq_01	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CmreReq_02(mi : MI; lai : LAI; cksn : B_3) <b>ASP Type</b> : DL_EstInCmreRq <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	CoRes
msg	CMReEstReq_02( mi, lai, cksn)	CM REESTABLISHMENT REQUEST
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CMSerAcp(ch : LOGICCH; pdu: CMS_ACP_PDU) <b>ASP Type</b> : DL_DatRqCmsAcp <b>Derivation Path</b> : <b>Comments</b> : To send a CM service accept message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	pdu	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : CMSerRej(ch : LOGICCH; pdu: CMS_REJ_PDU)		
<b>ASP Type</b> : DL_DatRqCmsRej		
<b>Derivation Path</b> :		
<b>Comments</b> : reject cause = "service or option not available, unspecified"		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CMSerReq(pdu: CMS_RQ_PDU)		
<b>ASP Type</b> : DL_EstInCmsRq		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a CM SERVICE REQUEST message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
establish_mode	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CMSerDatReq( pdu : CMS_RQ_PDU)		
<b>ASP Type</b> : DL_DatInCmsRq		
<b>Derivation Path</b> :		
<b>Comments</b> : To match any received CM SERVICE REQUEST message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ConnAckRcv(pdu: CONN_ACK_PDU)		
<b>ASP Type</b> : DL_DatInConnAck		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a CONNECT ACKNOWLEDGE message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ConnAckSnd(ch : LOGICCH; pdu: CONN_ACK_PDU)		
<b>ASP Type</b> : DL_DatRqConnAck		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a CONNECT ACKNOWLEDGE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Conn_invSnd( ch : LOGICCH; pdu : CONN_PDU_ERR)		
<b>ASP Type</b> : DL_DatRqConnErr		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ConnRcv(pdu: CONN_PDU) <b>ASP Type</b> : DL_DatInConn <b>Derivation Path</b> : <b>Comments</b> : To receive a CC CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ConnSnd(ch: LOGICCH; pdu: CONN_PDU) <b>ASP Type</b> : DL_DatRqConn <b>Derivation Path</b> : <b>Comments</b> : To send a CC CONNECT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CphCmd(ch: LOGICCH; pdu: CPHM_CMD_PDU) <b>ASP Type</b> : DL_DatRqCphmCmd <b>Derivation Path</b> : <b>Comments</b> : To send a CIPHERING MODE COMMAND message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CphCmd_inv(ch : LOGICCH; pdu : CPHM_CMD_PDU_ERR)		
<b>ASP Type</b> : DL_DatRqCphmCmdErr		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : CphCom(pdu: CPHM_COM_PDU)		
<b>ASP Type</b> : DL_DatInCphmCom		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a CIPHERING MODE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Disc_inv(ch: LOGICCH; pdu : DISC_PDU)		
<b>ASP Type</b> : DL_DatRqDisc		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Disc_inv_err(ch : LOGICCH; pdu : DISC_PDU_ERR) <b>ASP Type</b> : DL_DatRqDiscErr <b>Derivation Path</b> : <b>Comments</b> : To send a DISCONNECT message containing unknown IEI		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	TI = '0000'B
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DiscRcv(ch : LOGICCH; pdu: DISC_PDU) <b>ASP Type</b> : DL_DatInDisc <b>Derivation Path</b> : <b>Comments</b> : To match a received DISCONNECT message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch pdu ?	any cause, no option IEs
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DiscSnd(ch : LOGICCH; pdu: DISC_PDU) <b>ASP Type</b> : DL_DatRqDisc <b>Derivation Path</b> : <b>Comments</b> : To send a DISCONNECT message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLEstCo( ch : LOGICCH) <b>ASP Type</b> : DL_EstCo <b>Derivation Path</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLEstRq( ch : LOGICCH) <b>ASP Type</b> : DL_EstRq <b>Derivation Path</b> : <b>Comments</b> : Request of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	3
logic_ch	ch	
establish_mode	C_Norm	Norm
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLEstInd(ch : LOGICCH) <b>ASP Type</b> : DL_EstIn <b>Derivation Path</b> : <b>Comments</b> : Indication of a layer 2 connection establishment		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
establish_mode	?	Norm
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLEstInd_2(ch : LOGICCH)		
<b>ASP Type</b> : DL_EstIn		
<b>Derivation Path</b> :		
<b>Comments</b> : Indication of a layer 2 connection establishment for SAPI 3		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	
logic_ch	ch	
establish_mode	?	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLRelInd_01		
<b>ASP Type</b> : DL_RelIn		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLRelInd_02		
<b>ASP Type</b> : DL_RelIn		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ESetupRcv(pdu: ESETUP_PDU) <b>ASP Type</b> : DL_DatInESetup <b>Derivation Path</b> : <b>Comments</b> : To receive an emergency call SETUP message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : FacilityRcv(fac : FAC_PDU) <b>ASP Type</b> : DL_DatInFac <b>Derivation Path</b> : <b>Comments</b> : To receive a FACILITY message containing build multiparty request		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	DCCH
msg	fac	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : FacilitySnd( ch : LOGICCH; fac : FAC_PDU) <b>ASP Type</b> : DL_DatRqFac <b>Derivation Path</b> : <b>Comments</b> : To send the FACILITY message passed by 'fac'		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	DCCH
msg	fac	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : FrqRedfSnd( ch : LOGICCH; pdu : FRQRE_PDU) <b>ASP Type</b> : DL_DatRqFrqre <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HndOvSnd(ch : LOGICCH; msg : HO_CMD_PDU) <b>ASP Type</b> : DL_DatRqHoCmd <b>Derivation Path</b> : <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HndOvAcc_01		
<b>ASP Type</b> : DL_RacInHoacc		
<b>Derivation Path</b> :		
<b>Comments</b> : To received any HANDOVER ACCESS message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0,
logic_ch	?	
msg	HandOverAcc_01	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HndOvAccRcv(ch: LOGICCH; msg : HOACC_PDU) <b>ASP Type</b> : DL_RacInHoacc <b>Derivation Path</b> : <b>Comments</b> : To received any HANDOVER ACCESS message on channel 'ch'.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	0,
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HndOvFIRcv(ch : LOGICCH; msg :HOFL_PDU) <b>ASP Type</b> : DL_DatInHofl <b>Derivation Path</b> : <b>Comments</b> : To match a received HANDOVER FAILURE message containing any RR cause.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HndOvCmpRcv(ch : LOGICCH; msg : HO_COM_PDU) <b>ASP Type</b> : DL_DatInHoCom <b>Derivation Path</b> : <b>Comments</b> : To receive any HANDOVER COMPLETE message on channel ch.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HoldRcv( pdu : HOLD_PDU) <b>ASP Type</b> : DL_DatInHold <b>Derivation Path</b> : <b>Comments</b> : To receive any HOLD message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : HoldAckSnd( ch : LOGICCH; pdu : HOLD_ACK_PDU) <b>ASP Type</b> : DL_DatRqHoldAck <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : IDReq(ch : LOGICCH; pdu: ID_RQ_PDU) <b>ASP Type</b> : DL_DatRqIdRq <b>Derivation Path</b> : <b>Comments</b> : To send IDENTITY REQUEST message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : IDRes(pdu: ID_RES_PDU)		
<b>ASP Type</b> : DL_DatInIdRes		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a IDENTITY RESPONSE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAss(ch: LOGICCH; pdu: IMMASS_PDU)		
<b>ASP Type</b> : DL_UdatRqlmmass		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an IMMEDIATE ASSIGNMENT message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAssSp(ch:LOGICCH; pgg:PGG; msg:IMMASS_PDU)		
<b>ASP Type</b> : DL_UdatRqlmmass_sp		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an IMMEDIATE ASSIGNMENT message on the MS paging channel.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAssX( ch : LOGICCH; pdu : IMMASSX_PDU)		
<b>ASP Type</b> : DL_UdatRqImmssx		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> : The request reference (Rr, Fn) is used for the MS1, whilst (Rr_9, Fn_9) for MS2.		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAssXSp(ch:LOGICCH; pgg:PGG; msg:IMMASSX_PDU)		
<b>ASP Type</b> : DL_UdatRqImmssx_sp		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an IMMEDIATE ASSIGNMENT EXTENDED message on the MS paging channel.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAssRej( ch : LOGICCH; pdu : IMMASS_REJ_PDU)		
<b>ASP Type</b> : DL_UdatRqImmssRej		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImmAssRejSp( ch:LOGICCH; pgg:PGG; msg:IMMASS_REJ_PDU)		
<b>ASP Type</b> : DL_UdatRqlmmassRej_sp		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an IMMEDIATE ASSIGNMENT REJECT message on the MS paging channel.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	msg	
<b>Detailed Comments</b> : Only used in TC_26_6_2_4		

ASP Constraint Declaration		
<b>Constraint Name</b> : ImsiDet( pdu : IMSID_IN_PDU)		
<b>ASP Type</b> : DL_EstInImsidIn		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	check not required check not required
logic_ch	?	
establish_mode	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : LocAcp( ch : LOGICCH; pdu : LUP_ACP_PDU)		
<b>ASP Type</b> : DL_DatRqLupAcp		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : LocAcp_inv( ch: LOGICCH; mi1, mi2 : MI; mcc, mnc, lac : OCTETSTRING) <b>ASP Type</b> : DL_DatRqLupAcpErr <b>Derivation Path</b> : <b>Comments</b> : To send a LOCATION UPDATING ACCEPT message with duplicated mobile identities.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch LocUpdtAcp_inv_01( mi1, mi2, mcc, mnc, lac)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : LocUp( ch: LOGICCH; pdu : LUP_RQ_PDU) <b>ASP Type</b> : DL_EstInLupRq <b>Derivation Path</b> : <b>Comments</b> : To match a received LOCATION UPDATING REQUEST message containing location updating type = IMSI attach.		
Parameter Name	Parameter Value	Comments
sapi logic_ch establish_mode msg fn	C_Sap0 ch ? pdu ?	no check required
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : LocRej( ch: LOGICCH; pdu : LUP_REJ_PDU) <b>ASP Type</b> : DL_DatRqLupRej <b>Derivation Path</b> : <b>Comments</b> : 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 logic_ch msg	C_Sap0 ch pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : MDLRelReq(ch : LOGICCH) <b>ASP Type</b> : MDL_RelRq <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
release_mode	C_LocEndRel	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ModifySnd(ch : LOGICCH; msg : MODIFY_PDU) <b>ASP Type</b> : DL_DatRqModify <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ModifyRcv(msg : MODIFY_PDU) <b>ASP Type</b> : DL_DatInModify <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : ModifyCmpSnd(ch : LOGICCH; msg : MODIFY_COM_PDU) <b>ASP Type</b> : DL_DatRqModifyCom <b>Derivation Path</b> : <b>Comments</b> : n -> ms		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch msg	0
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ModifyRejRqSnd(ch : LOGICCH; msg : MODIFY_REJ_PDU) <b>ASP Type</b> : DL_DatRqModifyRej <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch msg	0
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ModifyRejRcv(ch : LOGICCH; msg : MODIFY_REJ_PDU) <b>ASP Type</b> : DL_DatInModifyRej <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch msg ?	0
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : MMSt( pdu : MMST_PDU) <b>ASP Type</b> : DL_DatInMmst <b>Derivation Path</b> : <b>Comments</b> : To receive a MM STATUS message containing reject cause value #97.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : MsrRept( pdu : MSR_RPT_PDU) <b>ASP Type</b> : DL_UdatInMsrRpt <b>Derivation Path</b> : <b>Comments</b> : To receive a measurement report without measurement results.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	SACCH
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : NotifySnd(ch : LOGICCH; msg : NOTIFY_PDU) <b>ASP Type</b> : DL_DatRqNotify <b>Derivation Path</b> : <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PgReq1(ch : LOGICCH; pgg : PGG; pg1_req_pdu: PG1_RQ_PDU)		
<b>ASP Type</b> : DL_UdatRqPg1Rq		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg1_req_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PgReq2(ch : LOGICCH; pgg : PGG; pg2_req_pdu: PG2_RQ_PDU) <b>ASP Type</b> : DL_UdatRqPg2Rq <b>Derivation Path</b> : <b>Comments</b> : 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	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg2_req_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PgReq3(ch : LOGICCH; pgg : PGG; pg3_req_pdu: PG3_RQ_PDU) <b>ASP Type</b> : DL_UdatRqPg3Rq <b>Derivation Path</b> : <b>Comments</b> : 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	Paging group of the mobile to be paged.
logic_ch	ch	
pgg	pgg	
msg	pg3_req_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PagingRes(pdu: PG_RES_PDU)		
<b>ASP Type</b> : DL_EstInPgRes		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a PAGING RESPONSE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	PAGING RESPONSE
logic_ch	?	
establish_mode	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PgRes( ch : LOGICCH; pdu : PG_RES_PDU)		
<b>ASP Type</b> : DL_EstInPgRes		
<b>Derivation Path</b> :		
<b>Comments</b> : To match any received PAGING RESPONSE message on the channel 'ch'.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	PAGING RESPONSE
logic_ch	ch	
establish_mode	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : PhyInfo_01(ch: LOGICCH; ta : TA)		
<b>ASP Type</b> : DL_DatRqPhyinfo		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	Phyinfo_01(ta)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Progress(ch : LOGICCH; pdu: PROG_PDU) <b>ASP Type</b> : DL_DatRqProg <b>Derivation Path</b> : <b>Comments</b> : To send a PROGRESS message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch pdu	0
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Register_01(ch:LOGICCH; reg : REGISTER_PDU) <b>ASP Type</b> : DL_DatInRegister <b>Derivation Path</b> : <b>Comments</b> : To receive any Register message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch reg ?	0
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Register_03(reg : REGISTER_PDU) <b>ASP Type</b> : DL_DatInRegister <b>Derivation Path</b> : <b>Comments</b> : CFNRy		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ? reg ?	0 DCCH
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : RegisterReq(ch: LOGICCH; reg : REGISTER_PDU)		
<b>ASP Type</b> : DL_DatRqRegister		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ReleaseRcv(pdu: REL_PDU)		
<b>ASP Type</b> : DL_DatInRel		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a CC RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : ReleaseSnd(ch: LOGICCH; pdu: REL_PDU)		
<b>ASP Type</b> : DL_DatRqRel		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a RELEASE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : RelComRcv(pdu: REL_COM_PDU)		
<b>ASP Type</b> : DL_DatInRelCmp		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a RELEASE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : RelComSnd(ch : LOGICCH; pdu: REL_COM_PDU)		
<b>ASP Type</b> : DL_DatRqRelCmp		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a RELEASE COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : RrStatusRcv( ch : LOGICCH; pdu : RRST_PDU)		
<b>ASP Type</b> : DL_DatInRrst		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SMSCBReq( ch : LOGICCH; pdu : SMSCB_PDU)		
<b>ASP Type</b> : DL_UdatRqSMSCBData		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a SMSCB message, first block		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	3
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SetupRcv(pdu: SETUP_MO_PDU)		
<b>ASP Type</b> : DL_DatInSetup		
<b>Derivation Path</b> :		
<b>Comments</b> : To receive a SETUP message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	pdu	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SetupSnd(ch: LOGICCH; setup : SETUP_MT_PDU)		
<b>ASP Type</b> : DL_DatRqSetup		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : StartDTMFRcv(msg : START_DTMF_PDU)		
<b>ASP Type</b> : DL_DatInStartDtmf		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : StartDTMFAckSnd(ch : LOGICCH; msg : START_DTMF_ACK_PDU)		
<b>ASP Type</b> : DL_DatRqStartDtmfAck		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : StartDTMFRejSnd(ch: LOGICCH; msg : START_DTMF_REJ_PDU)		
<b>ASP Type</b> : DL_DatRqStartDtmfRej		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : StopDTMFRcv(msg : STOP_DTMF_PDU)		
<b>ASP Type</b> : DL_DatInStopDtmf		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	?	
msg	msg	
fn	?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : StopDTMFAckSnd(ch: LOGICCH; msg : STOP_DTMF_ACK_PDU)		
<b>ASP Type</b> : DL_DatRqStopDtmfAck		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	0
logic_ch	ch	
msg	msg	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SyncInfo(ch : LOGICCH; bcc : BCC; ncc : NCC)		
<b>ASP Type</b> : DL_UdatRqSchinfo		
<b>Derivation Path</b> :		
<b>Comments</b> : To send SYNCHRONIZATION INFORMATION message with default parameters.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	SCH
logic_ch	ch	
msg	SyncInfor( bcc, ncc)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo1(ch : LOGICCH; cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1)		
<b>ASP Type</b> : DL_UdatRqSysinfo1		
<b>Derivation Path</b> :		
<b>Comments</b> : 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)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : 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)		
<b>ASP Type</b> : DL_UdatRqSysinfo1_nh		
<b>Derivation Path</b> :		
<b>Comments</b> :		
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)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo2(ch: LOGICCH; bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP)		
<b>ASP Type</b> : DL_UdatRqSysinfo2		
<b>Derivation Path</b> :		
<b>Comments</b> : 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	Default system Information message 2
logic_ch	ch	
msg	SysInf2(bcchfl, maxtx, txint, re, nccp)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo2ter1(ch: LOGICCH; length:LENGTH; fl: NCD2)		
<b>ASP Type</b> : DL_UdatRqSysinfo2ter		
<b>Derivation Path</b> :		
<b>Comments</b> : To send the default SYSTEM INFORMATION TYPE 2ter message containing pseudo length and neighbour cells description		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	System Information message 2ter
logic_ch	ch	
msg	SysInf2ter1(length,fl)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo2bis(ch: LOGICCH; bcchflegsm: NCD) <b>ASP Type</b> : DL_UdatRqSysinfo2bis <b>Derivation Path</b> : <b>Comments</b> : 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)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : 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)		
<b>ASP Type</b> : DL_UdatRqSysinfo3		
<b>Derivation Path</b> :		
<b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	Default System Information 3 with CCCH combined with SDCCH
logic_ch	ch	
msg	SysInf3(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : 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) <b>ASP Type</b> : DL_UdatRqSysinfo3 <b>Derivation Path</b> : <b>Comments</b> :		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf3_2ter(ci, mcc, mnc, lac, ccd, co, crh, mtmc, neci, maxtx, txint, re)	Default System Information 3 with CCCH combined with SDCCH
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo3_inv_01( mcc, mnc, lac : OCTETSTRING) <b>ASP Type</b> : DL_UdatRqSysinfo3 <b>Derivation Path</b> : <b>Comments</b> : 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 logic_ch msg	C_Sap0 C_BCCH_A_1 SysInf3_inv_01( mcc, mnc, lac)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo4(ch : LOGICCH; mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1) <b>ASP Type</b> : DL_UdatRqSysinfo4 <b>Derivation Path</b> : <b>Comments</b> : To send a default SYSTEM INFORMATION TYPE 4 message		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg	C_Sap0 ch SysInf4(mcc, mnc, lac, crh, mtmc, neci, maxtx, txint, re)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : 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)		
<b>ASP Type</b> : DL_UdatRqSysinfo4		
<b>Derivation Path</b> :		
<b>Comments</b> : 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)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo4_inv_01( mcc, mnc, lac : OCTETSTRING)		
<b>ASP Type</b> : DL_UdatRqSysinfo4		
<b>Derivation Path</b> :		
<b>Comments</b> : 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)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo5(sacch: LOGICCH; sysinfo5_pdu : SYSINFO5_PDU)		
<b>ASP Type</b> : DL_UdatRqSysinfo5		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a SYSTEM INFORMATION TYPE 5 message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo5bis(sacch: LOGICCH; sysinfo5bis_pdu : SYSINFO5bis_PDU)		
<b>ASP Type</b> : DL_UdatRqSysinfo5bis		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a SYSTEM INFORMATION TYPE 5bis message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo5bis_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : SysInfo6(sacch: LOGICCH; sysinfo6_pdu : SYSINFO6_PDU)		
<b>ASP Type</b> : DL_UdatRqSysinfo6		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a SYSTEM INFORMATION TYPE 6 message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	sacch	
msg	sysinfo6_pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : TmsiReallocSnd( par : MI; ch : LOGICCH; mcc, mnc, lac : OCTETSTRING)		
<b>ASP Type</b> : DL_DatRqTmsireCmd		
<b>Derivation Path</b> :		
<b>Comments</b> : To send a TMSI REALLOCATION COMMAND message.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	TmsiReallocCmd(par, mcc, mnc, lac)	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : TmsiReallocCmp( ch : LOGICCH) <b>ASP Type</b> : DL_DatInTmsireCom <b>Derivation Path</b> : <b>Comments</b> : To receive a TMSI REALLOCATION COMPLETE message.		
Parameter Name	Parameter Value	Comments
sapi logic_ch msg fn	C_Sap0 ch TmsiReallocComp ?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLUdatInd(ch:LOGICCH) <b>ASP Type</b> : DL_UdatIn <b>Derivation Path</b> : <b>Comments</b> : Indication of filler frame		
Parameter Name	Parameter Value	Comments
sapi logic_ch fn	C_Sap0 ch ?	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DLUdatInd_01 <b>ASP Type</b> : DL_UdatIn <b>Derivation Path</b> : <b>Comments</b> : Detection of any filler frame		
Parameter Name	Parameter Value	Comments
sapi logic_ch fn	C_Sap0 ? ?	
<b>Detailed Comments</b> :		



ASP Constraint Declaration		
<b>Constraint Name</b> : UndefCC( ch: LOGICCH; pdu: CONN_PDU)		
<b>ASP Type</b> : DL_DatRqUndefCC		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an undefined Layer 3 message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : UndefMM( ch : LOGICCH; pdu : ID_RES_PDU)		
<b>ASP Type</b> : DL_DatRqUndefMM		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an undefined MM message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : UndefRR( ch: LOGICCH; pdu : PART_REL_PDU)		
<b>ASP Type</b> : DL_DatRqUndefRR		
<b>Derivation Path</b> :		
<b>Comments</b> : To send an undefined RR message		
Parameter Name	Parameter Value	Comments
sapi	C_Sap0	
logic_ch	ch	
msg	pdu	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : Unknown( ch: LOGICCH; pdu: CCST_ENQ_PDU) <b>ASP Type</b> : DL_DatRqUnknown <b>Derivation Path</b> : <b>Comments</b> : 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	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DatInCpData( ch : LOGICCH; message : CP_DATA_PDU) <b>ASP Type</b> : DL_DatInCpData <b>Derivation Path</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DatRqCpData(message:CP_DATA_PDU; ch: LOGICCH) <b>ASP Type</b> : DL_DatRqCpData <b>Derivation Path</b> : <b>Comments</b> : ASP to request the transmission of the SMS CP DATA message using acknowledged operation (L3 -> L2) for MO.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DatInCpDataAck(message:CPDATA_ACK_PDU)		
<b>ASP Type</b> : DL_DatInCpDataAck		
<b>Derivation Path</b> :		
<b>Comments</b> : 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
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DatRqCpDataAck(message:CPDATA_ACK_PDU; ch: LOGICCH)		
<b>ASP Type</b> : DL_DatRqCpDataAck		
<b>Derivation Path</b> :		
<b>Comments</b> : The ASP is used to request the transmission of the SMS CP DATA message using acknowledged operation (L3 -> L2).		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	
<b>Detailed Comments</b> :		

ASP Constraint Declaration		
<b>Constraint Name</b> : DatRqCpError(message:CPERR_PDU; ch: LOGICCH)		
<b>ASP Type</b> : DL_DatRqCpError		
<b>Derivation Path</b> :		
<b>Comments</b> : ASP to request the transmission of the SMS CP ERROR message using acknowledged operation (L3 -> L2) for MO.		
Parameter Name	Parameter Value	Comments
sapi	C_Sap3	SAP for SMS
logic_ch	ch	
msg	message	
<b>Detailed Comments</b> :		

### 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	check not required
logic_ch	?	
msg	pdu	
fn	?	
Detailed Comments :		

PDU Constraint Declaration			
<b>Constraint Name</b> : Alerting_01(Ti :Ti) <b>PDU Type</b> : ALERT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Alerting_04(Ti :Ti; fie : FIE) <b>PDU Type</b> : ALERT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AlertingInd_01( ti : TI) <b>PDU Type</b> : ALERT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AlertingInd_02(Ti : TI) <b>PDU Type</b> : ALERT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : 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)			
<b>PDU Type</b> : ASS_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An ASSIGNMENT COMMAND message for hopping without starting time.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		TCH/F + ACCHs hopping
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_fh(chtype, slot, tsc, 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		
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : AsgnCmd_tchf_fh( slot : SN; tsc : TSC; par_pwlvl : INTEGER; maio : MAIO; hsn : HSN; frql : FRQL; cchd : CCHD; chmod : CHMOD; ma : MA; cphms : CPHMS)			
<b>PDU Type</b> : ASS_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An ASSIGNMENT COMMAND message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		TCH/F + ACCHs hopping
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_tchf_fh( slot, tsc, 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		
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : AsgnCmd_tchh_nfh( subch : B_1; slot : SN; tsc : TSC; par_pwlvl, arfcn : INTEGER; cchd : CCHD; chmod : CHMOD; strt : STRT)			
<b>PDU Type</b> : ASS_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An ASSIGNMENT COMMAND message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		TCH/F + ACCHs hopping
rrpd	'0110'B		
mt	'00101110'B		
ch1d_at	ChDescrp_tchh_nfh( slot, tsc, subch, 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	–		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : AsgnCmd_22_Ae2(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma:BITSTRING; n : INTEGER)			
<b>PDU Type</b> : ASS_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : AsgnCmd_inv_01(slot : SN; tsc : TSC)			
<b>PDU Type</b> : ASS_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	-		
<b>Detailed Comments</b> :			

## 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_PwrlvIA, 5))		TSPX_PwrlvIA
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			
<b>Constraint Name</b> : AsgnCmd_r15(slot : SN; tsc : TSC; slot2 : SN; tsc2 : TSC; strt : STRT) <b>PDU Type</b> : ASS_CMD_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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_PwrlvIB, 5))		TSPX_PwrlvIB
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	–		
<b>Detailed Comments</b> : used in TC_26_6_13_2 only.			

PDU Constraint Declaration			
<b>Constraint Name</b> : AsgnCmd_r16(slot : SN; tsc : TSC; strt : STRT) <b>PDU Type</b> : ASS_CMD_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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_PwrlvIC, 5))		TSPX_PwrlvIC
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	–		
<b>Detailed Comments</b> : used in TC_26_6_13_3 only.			

PDU Constraint Declaration			
<b>Constraint Name</b> : AsgnCmd_r17(slot : SN; tsc : TSC; strt : STRT) <b>PDU Type</b> : ASS_CMD_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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_PwrlvID, 5))		TSPX_PwrlvID
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	–		
<b>Detailed Comments</b> : used in TC_26_6_13_3 only.			

PDU Constraint Declaration			
<b>Constraint Name</b> : AsgnCmp_02 <b>PDU Type</b> : ASS_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AssgnFI_01 <b>PDU Type</b> : ASSFL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AssgnFI_02 <b>PDU Type</b> : ASSFL_PDU <b>Derivation Path</b> : AssgnFI_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : #6F			
Field Name	Field Value	Field Encoding	Comments
rrcau	'01101111'B		protocol error unspecified
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Abortmsg_01(par: REJCAU) <b>PDU Type</b> : ABRT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AuthRequest(cksn: B_3; rand : RAND) <b>PDU Type</b> : AUTH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
shoot	'0000'B		
cphksn	CphKeySN_07(cksn)		
rand	rand		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AuthRequest_inv_01( rand : RAND) <b>PDU Type</b> : AUTH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : An invalid AUTHENTICATION REQUEST message containing arbitrary spare bits			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		arbitrary spare bits ciphering key sequence number 0 and arbitrary spare bit  default challenge RAND from PIXIT
mmpd	'0101'B		
mt	'00010010'B		
shoct	'0101'B		
cphksn	CphKeySN_02		
rand	rand		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AuthReject_01			
<b>PDU Type</b> : AUTH_REJ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An AUTHENTICATION REJECT message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00010001'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : AuthResponse			
<b>PDU Type</b> : AUTH_RES_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_01( ti : TI) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_02(Ti : TI) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_03( ti : TI) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_04( ti : TI; Bcap1 : BCAP) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_05( ti : TI; ri : RPI; Bcap1, Bcap2 : BCAP) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_20( ti : TI) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallConfirm_Efr_20( ti : TI) <b>PDU Type</b> : CALL_CO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallProced_01(Ti : TI) <b>PDU Type</b> : CALL_PROC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallProced_03 <b>PDU Type</b> : CALL_PROC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CallProced_inv_02(Ti : TI) <b>PDU Type</b> : CALL_PROC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_01(Ti : TI) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_02( ti : TI) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_03(Ti : TI) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : CCStatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : CC STATUS message containing cause value #98			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cau	Cause_03		cause #98
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_04(Ti : TI) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : CCStatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A CC STATUS message containing cause value #96			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
cau	Cause_04		cause #96
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_08(Ti : TI; st : INTEGER) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 message type
mt	'0?111101'B		
cau	Cause_02		#97
cst	CallState_01(st)		
acst	*		auxiliary status
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_14(Ti : TI; st : INTEGER) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 message type
mt	'0?111101'B		
cau	Cause_18		#30
cst	CallState_01(st)		
acst	*		auxiliary status
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatus_inv_01( ti : TI) <b>PDU Type</b> : CCST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CCStatusEq_01(Ti : TI) <b>PDU Type</b> : CCST_ENQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A STATUS ENQUIRY message			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		
ccpd	'0011'B		
mt	'00110100'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoAck_01(chmd : CHMOD; chd: CHD) <b>PDU Type</b> : CHMMO_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoAck_02(chmd : CHMOD; chd : CHD) <b>PDU Type</b> : CHMMO_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoAck_08(type : CH_TDMA; chmd : B_8; slot : SN; tsc :TSC; arfcn : INTEGER) <b>PDU Type</b> : CHMMO_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoReq_01(chmd : CHMOD; chd : CHD)			
<b>PDU Type</b> : CHMMO_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoReq_02(chmd : CHMOD; chd : CHD)			
<b>PDU Type</b> : CHMMO_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : ChmomoReq_07(type: CH_TDMA; chmd: B_8; slot: SN; tsc: TSC; arfcn: INTEGER) <b>PDU Type</b> : CHMMO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRelease_01 <b>PDU Type</b> : CH_REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRelease_inv_01 <b>PDU Type</b> : CH_REL_PDU <b>Derivation Path</b> : ChRelease_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : An invalid CHANNEL RELEASE message without mandatory IE RR cause			
Field Name	Field Value	Field Encoding	Comments
rrcau	–		mandatory field missing
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRelease_inv_02 <b>PDU Type</b> : CH_REL_PDU <b>Derivation Path</b> : ChRelease_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A CHANNEL RELEASE message containing incorrect skip indicator 6.			
Field Name	Field Value	Field Encoding	Comments
ski	'0110'B		erroneous value
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRelease_inv_03			
<b>PDU Type</b> : CH_REL_PDU_ERR			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A CHANNEL RELEASE message containing additional IE unknown in the RR protocol			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		normal event additional unknown IE
rrpd	'0110'B		
mt	'00001101'B		
rrcau	'00000000'B		
add	'6205AA55EF6701'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_01 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A CHANNEL REQUEST message containing establishment cause = answer to paging.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'100?????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_02 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match any received CHANNEL REQUEST message			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'????????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_03 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_04 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_05 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_06 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_07 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received CHANNEL REQUEST message with establishment cause = '0010'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0010????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_08 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received CHANNEL REQUEST message with establishment cause = '0011'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'0011????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_09 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_10 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A CHANNEL REQUEST message with establishment cause = '110'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'110?????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_11 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received CHANNEL REQUEST message with establishment cause = '011010'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'011010???'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_12 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received CHANNEL REQUEST message with establishment cause = '100'B.			
Field Name	Field Value	Field Encoding	Comments
ecau_rrf	'100?????'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_13 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_14 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_15 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_16 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_17 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_18 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ChRequest_19 <b>PDU Type</b> : CH_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : ClassChange_01 <b>PDU Type</b> : CLM_CHN_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ClassChange_02 <b>PDU Type</b> : CLM_CHN_PDU <b>Derivation Path</b> : ClassChange_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ClassChange_03			
<b>PDU Type</b> : CLM_CHN_PDU			
<b>Derivation Path</b> : ClassChange_01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ClassMarkEnq_01 <b>PDU Type</b> : CLM_ENQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		skip identifier
rrpd	'0110'B		RR protocol discriminator
mt	'00010011'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMReEstReq_02(mi : MI; lai : LAI; cksn : B_3) <b>PDU Type</b> : CMRE_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceAcp_01 <b>PDU Type</b> : CMS_ACP_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : a CM SERVICE ACCEPT message			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		mm
mt	'00100001'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMSServiceRej_01 <b>PDU Type</b> : CMS_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMSServiceRej_02 <b>PDU Type</b> : CMS_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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"
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMSServiceRej_03 <b>PDU Type</b> : CMS_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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"
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceRej_04 <b>PDU Type</b> : CMS_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceRej_30(par: REJCAU) <b>PDU Type</b> : CMS_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_01 <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_02 <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : CMServiceReq_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_04 <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : CMServiceReq_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_05(mi : MI)			
<b>PDU Type</b> : CMS_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To match any received CM SERVICE REQUEST message for emergency call with IMEI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		emergency call.  TSPX_IMEI
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	?		
svtype	C_CMServiceTypeE		
msclm	?		
mi	mi		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_06( cksn : B_3)			
<b>PDU Type</b> : CMS_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		default CKSN emergency call.
mmpd	'0101'B		
mt	'0?100100'B		
cphksn	CphKeySN_01( cksn)		
svtype	C_CMServiceTypeE		
msclm	?		
mi	MiTmsi_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_07			
<b>PDU Type</b> : CMS_RQ_PDU			
<b>Derivation Path</b> : CMServiceReq_01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		
msclm	ClassMark2		emergency call.
mi	Milmei_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_08 <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : CMServiceReq_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received CM SERVICE REQUEST message indicating " supplementary service activation"			
Field Name	Field Value	Field Encoding	Comments
svtype	'1000'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_09 <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : CMServiceReq_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_30(parexpected_mi: MI) <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_31(parexpected_mi: MI; cksn: BITSTRING) <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CMServiceReq_32(parexpected_mi: MI; cksn: BITSTRING) <b>PDU Type</b> : CMS_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Connect_01( ti : TI) <b>PDU Type</b> : CONN_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : Connect_02(Ti : TI) <b>PDU Type</b> : CONN_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Connect_05(Ti : TI; fie : FIE) <b>PDU Type</b> : CONN_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Connect_inv_01(Ti : TI) <b>PDU Type</b> : CONN_PDU_ERR <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ConnectAck_01( ti : TI) <b>PDU Type</b> : CONN_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ConnectAck_02(Ti : TI) <b>PDU Type</b> : CONN_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_01			
<b>PDU Type</b> : CPHM_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CIPHERING MODE COMMAND message, the ciphering algorithm is specified by PIXIT.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		IMEISV not included ciphering "on"
rrpd	'0110'B		
mt	'00110101'B		
cph_res	CiphRes_01		
cphms	CphMod_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_02 <b>PDU Type</b> : CPHM_CMD_PDU <b>Derivation Path</b> : CphModeCmd_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : CIPHERING MODE COMMAND message with no ciphering.			
Field Name	Field Value	Field Encoding	Comments
cphms	CphMod_02		no ciphering
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_03 <b>PDU Type</b> : CPHM_CMD_PDU <b>Derivation Path</b> : CphModeCmd_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_inv_01 <b>PDU Type</b> : CPHM_CMD_PDU <b>Derivation Path</b> : CphModeCmd_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : Invalid CIPHERING MODE COMMAND message with mandatory IE's missing			
Field Name	Field Value	Field Encoding	Comments
cph_res	–		mandatory
cphms	–		mandatory
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_inv_02 <b>PDU Type</b> : CPHM_CMD_PDU <b>Derivation Path</b> : CphModeCmd_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : CIPHERING MODE COMMAND message containing incorrect skip identifier			
Field Name	Field Value	Field Encoding	Comments
ski	'0011'B		erroneous value
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmd_inv_03			
<b>PDU Type</b> : CPHM_CMD_PDU_ERR			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : CIPHERING MODE COMMAND message containing unknown IE			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		IMEISV not included ciphering "on", A5/1 additional unknown IE Channel Mode 2
rrpd	'0110'B		
mt	'00110101'B		
cph_res	CiphRes_01		
cphms	CphMod_03		
add	'92'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmp_01 <b>PDU Type</b> : CPHM_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmp_02 <b>PDU Type</b> : CPHM_COM_PDU <b>Derivation Path</b> : CphModeCmp_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match a received CIPHERING MODE COMPLETE message without IMEI.			
Field Name	Field Value	Field Encoding	Comments
mei	–		no mobile equipment identity
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CphModeCmp_03 <b>PDU Type</b> : CPHM_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	Milmeisv_01iei		mobile equipment identity
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : DisconnS(Ti : TI; cau : CAU; progind : PI; uuinf : UU) <b>PDU Type</b> : DISC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : DisconnR(Ti : TI; cau : CAU) <b>PDU Type</b> : DISC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Disconn_10(Ti : TI) <b>PDU Type</b> : DISC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	*		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Disconn_inv_01( ti : TI) <b>PDU Type</b> : DISC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Disconn_inv_02( ti : TI)			
<b>PDU Type</b> : DISC_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A DISCONNECT message in which the mandatory IE cause is missing. (N -> MS)			
Field Name	Field Value	Field Encoding	Comments
ti	ti		mandatory IE missing
ccpd	'0011'B		
mt	'00100101'B		
cau	-		
fie	-		
pi	-		
uu	-		
ssvi	-		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Disconn_inv_03( ti :TI)			
<b>PDU Type</b> : DISC_PDU_ERR			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 IEI, length =1, arbitrary content.
unknown	UnknownIE_02		
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : Disconn_inv_04( ti :TI) <b>PDU Type</b> : DISC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FacilityPdu_05(Ti : TI) <b>PDU Type</b> : FAC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FacilityPdu_25(Ti : TI; fie : FIE) <b>PDU Type</b> : FAC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FacilityPdu_25_ci(Ti : TI; fie : FIE) <b>PDU Type</b> : FAC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FacilityPdu_26(Ti : TI; fie : FIE) <b>PDU Type</b> : FAC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FacilityPdu_26_ci(Ti : TI; fie : FIE) <b>PDU Type</b> : FAC_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FreqRedef_01(chd : CHD; ma : MA; strt : STRT; cchd : CCHD) <b>PDU Type</b> : FRQRE_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FreqRedef_20(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma:BITSTRING; par_stime:STRT; n : INTEGER)			
<b>PDU Type</b> : FRQRE_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FreqRedef_21(ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_ma:BITSTRING; par_stime:STRT; n : INTEGER)			
<b>PDU Type</b> : FRQRE_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	-		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : FreqRedef_22( ts_ccch: BITSTRING; par_chtype : CH_TDMA; par_cchd: OCTETSTRING; par_ma1:BITSTRING; par_ma2:BITSTRING; par_stime:STRT; n : INTEGER)			
<b>PDU Type</b> : FRQRE_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOverAcc_01			
<b>PDU Type</b> : HOACC_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To match any received HANDOVER ACCESS message			
Field Name	Field Value	Field Encoding	Comments
horf	?		handover reference
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOverAcc_02(horef : HORF)			
<b>PDU Type</b> : HOACC_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To match a received HANDOVER ACCESS message with handover reference ' horef'.			
Field Name	Field Value	Field Encoding	Comments
horf	horef		handover reference
<b>Detailed Comments</b> :			

## 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		from PIXIT
rrpd	'0110'B		
mt	'00101011'B		
cd	CellDescrp( ncc, bcc, sdccharfcn)		
ch1d_at	ChDescrp_nfh( type, slot, tsc, tcharfcn)		
horf	horf		
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; pwlv1 : 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 power level
pcmd	Pcmd_20( pwlv1)		
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		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : HandOverCmd_inv_01(slot : SN; tsc : TSC; ncc, bcc : B_3; arfcn : INTEGER)			
<b>PDU Type</b> : HO_CMD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

## 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		
frqsl_at	Frql_01		
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	–		

comprehension required IEI  
length = 1, unrecognised IE  
contents

**Detailed Comments** :

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOverCmp_01 <b>PDU Type</b> : HO_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 cause
motdif	*		mobile observed time difference
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOverCmp_20 <b>PDU Type</b> : HO_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOvFail_01 <b>PDU Type</b> : HOFL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HandOvFail_02			
<b>PDU Type</b> : HOFL_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A HANDOVER FAILURE message matching any abnormal release RR cause.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		abnormal release causes
rrpd	'0110'B		
mt	'00101000'B		
rrcau	('00000001'B, '00000010'B, '00000011'B, '00000100'B, '01101111'B)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Holdpdu_01(Ti : TI)			
<b>PDU Type</b> : HOLD_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?011000'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : HoldAckpdu_01(Ti : TI)			
<b>PDU Type</b> : HOLD_ACK_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00011001'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDResponse_01 <b>PDU Type</b> : ID_RES_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDResponse_02 <b>PDU Type</b> : ID_RES_PDU <b>Derivation Path</b> : IDResponse_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : An IDENTITY RESPONSE message which matches TMSI of the MS under test			
Field Name	Field Value	Field Encoding	Comments
mi	MiTmsi_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDResponse_30(par:MI) <b>PDU Type</b> : ID_RES_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDRequest_01(type : B_4) <b>PDU Type</b> : ID_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDRequest_inv_01(skip :INTEGER) <b>PDU Type</b> : ID_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDRequest_inv_02 <b>PDU Type</b> : ID_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : IDRequest_inv_03 <b>PDU Type</b> : ID_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_01Def(Rr: BITSTRING; Fn: FN; sub : B_2; slot : SN; tsc : TSC; par_arfcn : INTEGER; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_02(Rr: BITSTRING; Fn: FN; ta : TA; chd : CHD; ma : MA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_06		3 '2B' octets
<b>Detailed Comments</b> : Used only in TC_26_6_6_1			



PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_nfh(Rr: BITSTRING; Fn: FN; type: CH_TDMA; slot : SN; tsc : TSC; ta : TA; arfcn: INTEGER; pgm : B_2) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

## 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	laRestOct( iel)		

**Detailed Comments** :

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_27(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; par_arfcn: INTEGER; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	MoblAlc_01		non hopping
strt	–		
iaroct	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

## 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	laRestOct_01		11 octets of '2B'O

**Detailed Comments** :

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_E_02(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_02		10 Bytes
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_inv_01(Rr:BITSTRING; Fn:FN; slot:SN; tsc:TSC; arfcn:INTEGER; ta:TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_inv_04(Rr : BITSTRING; Fn : FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_05		all octets are diffrent from '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r(chd : CHD ; Rr : BITSTRING ; Fn : FN; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r02(Rr: BITSTRING; Fn: FN; sub : B_3; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r13(Rr: BITSTRING; Fn: FN; chd : CHD; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	MoblAlc_01		non hopping
strt	—		
iaroct	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r14(Rr: BITSTRING; Fn: FN; chd : CHD; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r27(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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       normal mode TSPX_SDCCH8SubA, hopping      8 octets of '2B'O
ski	'0000'B		
rrpd	'0110'B		
mt	'00111111'B		
shoct	'0000'B		
pm	Pm( C_normal_paging)		
chd	ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubA, INT_TO_BIT(TSPX_Maio1, 6), INT_TO_BIT(TSPX_Hsn1, 6))		
rqr	Rqr2(Rr, Fn)		
ta	ta		
ma	MoblAlc_r05		
strt	–		
iaroct	laRestOct_08		
<b>Detailed Comments</b> :			

### 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			
<b>Constraint Name</b> : ImmAsgn_r29(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_08		8 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r30(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	MoblAllic_r14		
strt	–		
iaroct	IaRestOct_08		8 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r31(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	MoblAllic_r18		
strt	–		
iaroct	laRestOct_08		8 octets of '2B'O
<b>Detailed Comments</b> :			

### 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	laRestOct_08		8 octets of '2B'O

**Detailed Comments** :



PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r33(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_08		8 octets of '2B'O
<b>Detailed Comments</b> :			

### 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	laRestOct_08		8 octets of '2B'O

**Detailed Comments** :

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r35(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA; starttm : STRT; chd : CHD) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_03		INT_TO_BIT(TSPX_Maio29, 6), TSPX_Ma29, before time
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_r36(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; ta : TA; starttm : STRT; chd :CHD) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_04		INT_TO_BIT(TSPX_Maio31, 6), TSPX_Ma31, before time
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgn_sdcch8(Rr: BITSTRING; Fn: FN; slot : SN; tsc : TSC; subch : B_3; arfcn : INTEGER; ta : TA) <b>PDU Type</b> : IMMASS_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	laRestOct_01		11 octets of '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnX_01(Rr: BITSTRING; Fn: FN; sub1, sub2 : B_3; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)			
<b>PDU Type</b> : IMMASSX_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	MoblAlIc_01		non hopping
strt	—		
iaxroct	'2B2B2B2B'O		
<b>Detailed Comments</b> :			

## 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		
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : ImmAsgnX_r01(Rr: BITSTRING; Fn: FN; Rr_9: BITSTRING; Fn_9: FN; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER)			
<b>PDU Type</b> : IMMASSX_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
chd1	ChDescrp_nfh( INT_TO_BIT(( 4 + BIT_TO_INT( TSPX_SDCCH4SubA)), 5), slot, tsc, arfcn)		
rqr1	Rqr2(Rr, Fn)		
ta1	ta		
chd2	ChDescrp_nfh( INT_TO_BIT(( 4 + BIT_TO_INT( TSPX_SDCCH4SubB)), 5), slot, tsc, arfcn)		
rqr2	Rqr2(Rr_9, Fn_9)		normal mode
ta2	ta		SDCCCH/4, non hopping, channel number 20
ma	MoblAllc_01		
strt	—		from PIXIT
iaxroct	'2B2B2B2B'O		an another SDCCH/4 subchannel
<b>Detailed Comments</b> :			

## 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			
<b>Constraint Name</b> : ImmAsgnX_r03(Rr: BITSTRING; Fn: FN; sub1, sub2 : B_2; slot : SN; tsc : TSC; ta : TA; arfcn : INTEGER) <b>PDU Type</b> : IMMASSX_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration
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<b>Constraint Name</b>	: ImmAsgnRej_01(Rr: BITSTRING; Fn: FN)
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<b>PDU Type</b>	: IMMASS_REJ_PDU
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Derivation Path :

Encoding Rule Name :	
Encoding Variation :	

**Comments** : An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode.

Field Name	Field Value	Field Encoding	Comments
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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			
<b>Constraint Name</b> : ImmAsgnRej_02(Rr : BITSTRING; Fn: FN)			
<b>PDU Type</b> : IMMASS_REJ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		normal mode  not address the MS under test
pm	Pm( C_normal_paging)		
rqr1	Rqr1(Rr, Fn)		
wi1	'02'H		
rqr2	Rqr1(Rr, Fn)		not address the MS under test
wi2	'02'H		
rqr3	Rqr2(Rr, Fn)		
wi3	'00'H		
rqr4	Rqr1(Rr, Fn)		address the MS under test   not address the MS under test
wi4	'02'H		
iarroct	'2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_03(Rr: BITSTRING; Fn: FN) <b>PDU Type</b> : IMMASS_REJ_PDU <b>Derivation Path</b> : ImmAsgnRej_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_04(Rr: BITSTRING; Fn: FN) <b>PDU Type</b> : IMMASS_REJ_PDU <b>Derivation Path</b> : ImmAsgnRej_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_inv_01(Rr: BITSTRING; Fn: FN) <b>PDU Type</b> : IMMASS_REJ_PDU <b>Derivation Path</b> : ImmAsgnRej_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_inv_02(Rr: BITSTRING; Fn: FN)			
<b>PDU Type</b> : IMMASS_REJ_PDU			
<b>Derivation Path</b> : ImmAsgnRej_01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : An invalid IMMEDIATE ASSIGNMENT REJECT message containing arbitrary spare bits			
Field Name	Field Value	Field Encoding	Comments
shoct	'1010'B		arbitrary spare bits normal mode
pm	Pm( C_normal_paging)		
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		all octets are different from '2B'O
iarroct	'010101'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_r01(rqr1, rqr2, rqr3, rqr4: RQR; t1, t2: INTEGER)			
<b>PDU Type</b> : IMMASS_REJ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
rqr1	rqr1		
wi1	'00'H		
rqr2	rqr2		
wi2	INT_TO_HEX(t1, 2)		
rqr3	rqr3		
wi3	INT_TO_HEX(t2, 2)		
rqr4	rqr4		
wi4	'00'H		
iarroct	'2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ImmAsgnRej_r02(Rr: BITSTRING; Fn: FN)			
<b>PDU Type</b> : IMMASS_REJ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		normal mode
rrpd	'0110'B		
mt	'00111010'B		
shoct	'0000'B		
pm	Pm( C_normal_paging)		
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		
<b>Detailed Comments</b> :			



## PDU Constraint Declaration

<b>Constraint Name</b>	: ImmAsgnRej_r04
<b>PDU Type</b>	: IMMASS_REJ_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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

<b>Constraint Name</b>	: ImsiDetach_01
<b>PDU Type</b>	: IMSID_IN_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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			
<b>Constraint Name</b> : ImsiDetach_30(par:MI)			
<b>PDU Type</b> : IMSID_IN_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : IMSI DETACH INDICATION message matching any MS classmark1 value and given IMSI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		any mobile station classmark1
mmpd	'0101'B		
mt	'0?000001'B		
msclm	?		
mi	par		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtAcp(mcc, mnc, lac : OCTETSTRING) <b>PDU Type</b> : LUP_ACP_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	–		
fop	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtAcp_01(newmi: MI; mcc, mnc, lac : OCTETSTRING)			
<b>PDU Type</b> : LUP_ACP_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To assign a new TMSI with or without mobile identity.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	newmi		
fop	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtAcp_02( mcc, mnc, lac:OCTETSTRING)			
<b>PDU Type</b> : LUP_ACP_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To assign a new TMSI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		location area identification
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	–		
fop	'10100001'B		Follow on proceed IE is included.
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtAcp_inv_01(mi1, mi2 : MI; mcc, mnc, lac : OCTETSTRING)			
<b>PDU Type</b> : LUP_ACP_PDU_ERR			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : Invalid LOCATION UPDATING ACCEPT message containing duplicated mobile identifier.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		duplicated mobile identifier
mmpd	'0101'B		
mt	'00000010'B		
lai	LocAreald( mcc, mnc, lac)		
mi	mi1		
dupmi	mi2		
<b>Detailed Comments</b> :			

PDU Constraint Declaration				
<b>Constraint Name</b> : LocUpdtReq_01( locup : B_2)				
<b>PDU Type</b> : LUP_RQ_PDU				
<b>Derivation Path</b> :				
<b>Encoding Rule Name</b> :				
<b>Encoding Variation</b> :				
<b>Comments</b> : A LOCATION UPDATING REQUEST message containing location updating type.				
Field Name	Field Value	Field Encoding	Comments	
ski	'0000'B		no check required	
mmpd	'0101'B			
mt	'0?001000'B			
cphksn	?			
lutype	LocUpType( locup)			no check required
lai	?			
msclm	?			
mi	?			
<b>Detailed Comments</b> :				

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtReq_04( locup : B_2; par : MI)			
<b>PDU Type</b> : LUP_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : LOCATION UPDATING REQUEST message containing TMSI.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		no check required
mmpd	'0101'B		
mt	'0?001000'B		
cphksn	?		
lutype	LocUpType(locup)		
lai	?		
msclm	?		
mi	par		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtReq_05			
<b>PDU Type</b> : LUP_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : to match any LOCATION UPDATING REQUEST message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		no check required
mmpd	'0101'B		
mt	'0?001000'B		
cphksn	?		
lutype	?		
lai	?		
msclm	?		
mi	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtReq_31(par:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn: BITSTRING) <b>PDU Type</b> : LUP_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : LocUpdtRej_01(par:REJCAU) <b>PDU Type</b> : LUP_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A LOCATION UPDATING REJECT message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00000100'B		
rejcau	par		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MMstatus_01 <b>PDU Type</b> : MMST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MMstatus_02 <b>PDU Type</b> : MMST_PDU <b>Derivation Path</b> : MMstatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : cause value = #96-- invalid mandatory information			
Field Name	Field Value	Field Encoding	Comments
rejcau	'60'O		reject cuase value #96
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MMstatus_03 <b>PDU Type</b> : MMST_PDU <b>Derivation Path</b> : MMstatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyComp_02(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyComp_03(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyInd_01(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyReq_01(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyRj_01(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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.
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ModifyRjRq_01(Ti : TI; bc : BCAP) <b>PDU Type</b> : MODIFY_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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.
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_01			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report without measurement results			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type containing no measurement results
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_02			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report match any received MSR_RPT_PDU.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type containing any value
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_02		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_03			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing results for 6 strongest carriers.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type 6 strongest carriers
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_03		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_03e(par_measres: MSRR)			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing results for 6 strongest carriers.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type 6 strongest carriers
rrpd	'0110'B		
mt	'00010101'B		
msrr	par_measres		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_04			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing 4 strongest carriers.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_04		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_04e			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing 4 strongest carriers.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_04e		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_05			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing 6 strongest carriers and DTX was used.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_05		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_06			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing 6 strongest carriers and DTX is not checked.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_06		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : MsrReport_07			
<b>PDU Type</b> : MSR_RPT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : A measurement report containing 2 strongest carriers and DTX is not used.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		RR protocol discriminator measurement message type
rrpd	'0110'B		
mt	'00010101'B		
msrr	MsrResult_07		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : NotifiReq_01(Ti : TI) <b>PDU Type</b> : NOTIFY_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PagingRes_01			
<b>PDU Type</b> : PG_RES_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PagingRes_03( cksn : B_3) <b>PDU Type</b> : PG_RES_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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_CKSNDf
msclm	ClassMark2		
mi	MiTmsi_01		TSPX_TMSI
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PagingRes_r01 <b>PDU Type</b> : PG_RES_PDU <b>Derivation Path</b> : PagingRes_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match any received PAGING RESPONSE message, RR tests.			
Field Name	Field Value	Field Encoding	Comments
mi	MiTmsi_01		same as in the PgRq
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PagingRes_r02 <b>PDU Type</b> : PG_RES_PDU <b>Derivation Path</b> : PagingRes_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match the received PAGING RESPONSE message containing IMSI of the IUT for RR tests.			
Field Name	Field Value	Field Encoding	Comments
mi	Milmsi_01		same as in the PgRq
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PagingRes_30(par:MI; cksn: BITSTRING)			
<b>PDU Type</b> : PG_RES_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : To match any received PAGING RESPONSE message. Used in MM test cases.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		no check requirement
rrpd	'0110'B		
mt	'00100111'B		
shoct	'0000'B		
cphksn	CphKeySN_07(cksn)		
msclm	?		
mi	par		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_01			
<b>PDU Type</b> : PG1_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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		any channel normal paging TSPX_TMSI
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		
pm	Pm( C_normal_paging)		
mi1	MiTmsi_01		
mi2	-		
p1roct	'2B2		



PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_02 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_03 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_04 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_05 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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(Milmsi_01)) * 4) + 1, 1)		
mi1	Milmsi_01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B'0, 19 – OC_LengthOf(Milmsi_01))		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_06 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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(Milmsi_r01)) * 4) + 1, 1)		
pm	Pm( C_extended_paging)		extended paging
mi1	Milmsi_r01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B'0, 19 – OC_LengthOf(Milmsi_r01))		
<b>Detailed Comments</b> :			

## PDU Constraint Declaration

<b>Constraint Name</b>	: PgReqTp1_07
<b>PDU Type</b>	: PG1_RQ_PDU
<b>Derivation Path</b>	: PgReqTp1_01.
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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(Milmsi_01)) * 4) + 1, 1)		paging reorganisation
pm	Pm( C_reorg_paging)		
mi1	Milmsi_01		
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B'0, 19 – OC_LengthOf(Milmsi_01))		

**Detailed Comments** : Only used in TC\_26\_6\_2\_4 within Pg\_Req1\_08

## PDU Constraint Declaration

<b>Constraint Name</b>	: PgReqTp1_30(par_usedmi: MI)
<b>PDU Type</b>	: PG1_RQ_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: An PAGING REQUEST TYPE1 message requesting any channel with normal paging mode, the mobile identity is parameterised. 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('2B2B2B2B2B2B2B2B2B2B2B2B2B2B'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 :**

<b>Comments</b>	: PAGING REQUEST TYPE1 message containing normal paging mode, used as paging filling message.
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[illegible]**Detailed Comments :**

## PDU Constraint Declaration

**Constraint Name** : PgReqTp1Reorg

**PDU Type** : PG1\_RQ\_PDU

**Derivation Path** : PgReqTp1\_01.

Encoding Rule Name :

**Encoding Variation :**

<b>Comments</b>	: PAGING REQUEST TYPE1 message containing paging reorganisation mode, used as paging filling message.
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Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((3 + OC_LengthOf(Milmsi_02)) * 4) + 1, 1)		
pm	Pm( C_reorg_paging)		paging reorganisation
mi1	Milmsi_02		no identity
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B2B'0, 19 – OC_LengthOf(Milmsi_02))		

**Detailed Comments :**

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_inv_01(skip : INTEGER)			
<b>PDU Type</b> : PG1_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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  any channel normal paging
ski	INT_TO_BIT(skip, 4)		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		
pm	Pm( C_normal_paging)		
mi1	MiTmsi_01		
mi2	-		
p1roct	'2B2B2B2B2B2B2B2B2B2B2B2B2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_inv_04 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> : '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			
<b>Constraint Name</b> : PgReqTp1_r01			
<b>PDU Type</b> : PG1_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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  any channel normal paging TSPX_TMSI 9 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		
pm	Pm( C_normal_paging)		
mi1	MiTmsi_01		
mi2	Milmsi_r01iei		
p1roct	'2B2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_r02			
<b>PDU Type</b> : PG1_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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(Milmsi_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	Milmsi_01iei		the imsi of IUT
p1roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B'O, 13 – OC_LengthOf(Milmsi_01iei) )		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_r03 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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    any channel normal paging
ski	'0000'B		
rrpd	'0110'B		
mt	'00100001'B		
chn_m1_2	Chneed_01		
pm	Pm( C_normal_paging)		
mi1	MiTmsi_r01		
mi2	MiTmsi_01iei		
p1roct	'2B2B2B2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp1_r04 <b>PDU Type</b> : PG1_RQ_PDU <b>Derivation Path</b> : PgReqTp1_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_01 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_02 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_03 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_04 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_r01 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp2_r02 <b>PDU Type</b> : PG2_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	'2B2B2B2B2B2B2B2B2B'O		11 octets
<b>Detailed Comments</b> :			

## PDU Constraint Declaration

**Constraint Name** : PgReqTp2\_r03

<b>PDU Type</b>	: PG2_RQ_PDU
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Derivation Path :

Encoding Rule Name :

**Encoding Variation :**

<b>Comments</b>	: 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.
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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
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Derivation Path :

Encoding Rule Name :

**Encoding Variation :**

<b>Comments</b>	: 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. .
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Field Name	Field Value	Field Encoding	Comments
l2_pl	OC_IntToOct(((11 + OC_LengthOf(Milmsi_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	Milmsi_01iei		the IUT
p2roct	OC_SubOctet('2B2B2B2B2B2B2B2B2B'0, 11 – OC_LengthOf(Milmsi_01iei) )		

**Detailed Comments :**

## PDU Constraint Declaration

<b>Constraint Name</b>	: PgReqTp2_r05
<b>PDU Type</b>	: PG2_RQ_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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

<b>Constraint Name</b>	: PgReqTp2_r06
<b>PDU Type</b>	: PG2_RQ_PDU
<b>Derivation Path</b>	:
<b>Encoding Rule Name</b>	:
<b>Encoding Variation</b>	:
<b>Comments</b>	: 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(Milmsi_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	Milmsi_01iei		the IUT
p2roct	OC_SubOctet('2B2B2B2B2 B2B2B2B2B2B2B'O, 11 – OC_LengthOf(Milmsi_01iei) )		

**Detailed Comments :**

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_01 <b>PDU Type</b> : PG3_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : An PAGING REQUEST TYPE3 message requesting any channel with extended paging mode and not addressing the MS under test.			
Field Name	Field Value	Field Encoding	Comments
l2_pl	'4D'O		L2 pseudo length = 19  any channel extended paging the MS under test not the MS under test not the MS under test not the MS under test 3 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		
pm	Pm( C_extended_paging)		
mi1	Tmsi_r05		
mi2	Tmsi_r01		
mi3	Tmsi_r03		
mi4	Tmsi_r04		
p3roct	'2B2B2B'O		
<b>Detailed Comments</b> : Only used in 26_6_2_2 within Pg_Req3_01.			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_02			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> : Only used in TC_26_6_2_4 within Pg_Req3_02			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_03			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_r01			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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  any channel normal paging the IUT an another MS an another MS an another MS 3 octets
ski	'0000'B		
rrpd	'0110'B		
mt	'00100100'B		
chn_m1_2	Chneed_01		
pm	Pm( C_normal_paging)		
mi1	Tmsi_01		
mi2	Tmsi_r01		
mi3	Tmsi_r03		
mi4	Tmsi_r04		
p3roct	'2B2B2B'O		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_r02			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> : PgReqTp3_r01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 the IUT
mi2	Tmsi_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_r03			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> : PgReqTp3_r01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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 the IUT
mi3	Tmsi_01		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_r04			
<b>PDU Type</b> : PG3_RQ_PDU			
<b>Derivation Path</b> : PgReqTp3_r01.			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : PgReqTp3_r05 <b>PDU Type</b> : PG3_RQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Phyinfor_01(ta : TA) <b>PDU Type</b> : PHYINFO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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		
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : Progress_01(Ti : TI) <b>PDU Type</b> : PROG_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Progress_02(Ti : TI) <b>PDU Type</b> : PROG_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RegisterPdu_01 <b>PDU Type</b> : REGISTER_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RegisterPdu_03( fie : FIE) <b>PDU Type</b> : REGISTER_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RegisterPdu_34(Ti : TI; fie : FIE) <b>PDU Type</b> : REGISTER_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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 independent.
mt	'00111011'B		message type
fie	fie		facility
ssvi	–		SS version indicator
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_01( ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_02 <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_03(Ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_05(Ti : TI ; Cau : CAU) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_06(Ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_08(Ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Release_10(Ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmpRcv(Ti :Ti; cau : CAU) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_02( ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_03(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match any received RELEASE message.			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator
cc_sspd	'0011'B		
mt	'0?101010'B		
cau	*		
fie	*		
uu	*		
ssvi	*		SS version
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_04(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A RELEASE COMPLETE message containing cause value #1. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator
cc_sspd	'0011'B		
mt	'00101010'B		
cau	Cause_10		
fie	-		
uu	-		
ssvi	-		SS version
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_07(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_08(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_09(Ti :TI; fie : FIE) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A RELEASE COMPLETE message containing facility IE. n -> ms			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		SS protocol discriminator
cc_sspd	'1011'B		
mt	'00101010'B		
cau	-		facility
fie	fie		
uu	-		
ssvi	-		SS version
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_10(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : A RELEASE COMPLETE message containing cause value = #17. ms -> n			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		CC protocol discriminator
cc_sspd	'0011'B		
mt	'0?101010'B		
cau	Cause_17		user busy #17
fie	*		facility
uu	*		user-user information
ssvi	*		SS version
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_25(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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( FwdChAdvRsIt_01) IF_PRESENT		facility
uu	*		user-user information
ssvi	*		SS version
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_42(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_47(Ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_49(Ti : TI; Invkid : OCTETSTRING) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	facility!Ercviei( NotificationSS_09( Invkid))		facility
uu	–		user–user information
ssvi	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_50(Ti : TI; Invkid : OCTETSTRING) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	facilityErcviei( USSDReq_05( Invkid))		facility
uu	–		user–user information
ssvi	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_52( ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseCmp_inv_02( ti : TI) <b>PDU Type</b> : REL_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : ReleaseReq_inv_01(Ti : TI) <b>PDU Type</b> : REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RRStatus_01 <b>PDU Type</b> : RRST_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RRStatus_02 <b>PDU Type</b> : RRST_PDU <b>Derivation Path</b> : RRStatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : RR STATUS message containing cause value #96--invalid mandatory information			
Field Name	Field Value	Field Encoding	Comments
rrcau	'01100000'B		cause value #96
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : RRStatus_03 <b>PDU Type</b> : RRST_PDU <b>Derivation Path</b> : RRStatus_01. <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

### 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
bcrl	-		
bcap1	Bcap_Speech_MT		speech
bcap2	-		
fi	-		
pi	-		
sig	-		
cgpn	-		
cgps	-		
cdpn	-		
cdps	-		
llcri	-		
llcmp1	-		
llcmp2	-		
hlcri	-		
hlcmp1	-		
hlcmp2	-		
uu	-		

**Detailed Comments** :



PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_02( bcap: BCAP) <b>PDU Type</b> : SETUP_MO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
bcrl	—		
bcap1	bcap		speech full rate only or dual rate
bcap2	—		
fi	*		
cgps	*		
cdpn	?		
cdps	*		
llcrl	*		
llcmp1	*		
llcmp2	*		
hlcrl	*		
hlcmp1	*		
hlcmp2	*		
uu	*		
ssvi	*		SS version ms -> n
clirsup	*		CLIR suppression ms -> n
clirinv	*		CLIR invocation ms -> n
cccap	*		call control capabilities ms->n
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_03( ti : TI) <b>PDU Type</b> : SETUP_MT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
bcrl	—		
bcap1	—		
bcap2	—		
fi	—		
pi	—		
sig	—		
cgpn	—		
cgps	—		
cdpn	—		
cdps	—		
llcri	—		
llcmp1	—		
llcmp2	—		
hlcri	—		
hlcmp1	—		
hlcmp2	—		
uu	—		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_04( bcap: BCAP) <b>PDU Type</b> : ESETUP_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_10_UDI(bcap: BCAP; llc1 : LLCMP; hlc1 : HLCMP) <b>PDU Type</b> : SETUP_MO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
bcricri	—		
bcap1	bcap		
bcap2	—		
fiel	*		
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
hlcricri	—		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
<b>Detailed Comments</b> :			

## 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
bcricri	—		
bcap1	bcap		
bcap2	—		
fi	*		
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
bcrl	—		
bcap1	par		
bcap2	—		
fi	—		
pi	—		
sig	—		
cgpn	—		
cgps	—		
cdpn	—		
cdps	—		
llcri	—		
llcmp1	—		
llcmp2	—		
hlcri	—		
hlcmp1	—		
hlcmp2	—		
uu	—		

**Detailed Comments** :

PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_21(par1 : RPI; par2, par3 : BCAP; ti : TI)			
<b>PDU Type</b> : SETUP_MT_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

### 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
bcric	—		
bcap1	—		
bcap2	—		
fi	—		
pi	—		
sig	—		
cgpn	—		
cgps	—		
cdpn	—		
cdps	—		
llcri	—		
llcmp1	—		
llcmp2	—		
hlcri	—		
hlcmp1	—		
hlcmp2	—		
uu	—		

**Detailed Comments** :



PDU Constraint Declaration			
<b>Constraint Name</b> : Setup_inv_02( ti : TI) <b>PDU Type</b> : SETUP_MT_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	—		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SMSCB_01(sernum: SERIAL_NUMBER)			
<b>PDU Type</b> : SMSCB_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SMSCB_02(seqnum, lb: BITSTRING; firstoct: INTEGER; lastoct: INTEGER)			
<b>PDU Type</b> : SMSCB_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		22 octets of contents
serial_number	-		
message_id	-		
dcs	-		
page_param	-		
message_contents	OC_CodeSMSCBMessage(f irstoct, lastoct)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SetupInd_01 <b>PDU Type</b> : SETUP_MO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : To match any received SETUP message			
Field Name	Field Value	Field Encoding	Comments
ti	Tl_09		
ccpd	'0011'B		
mt	'0?000101'B		
bcrl	*		BC repeat indicator
bcap1	?		bearer capab.
bcap2	*		bearer capab.
fi	*		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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StartDtmf_01(Ti : Tl; character : IA5String) <b>PDU Type</b> : START_DTMF_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StartDtmf_02(Ti : TI) <b>PDU Type</b> : START_DTMF_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StartDtmf_03 <b>PDU Type</b> : START_DTMF_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StartDtmfAck_01(Ti : TI; character : IA5String) <b>PDU Type</b> : START_DTMF_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StartDtmfRej_01(Ti : TI) <b>PDU Type</b> : START_DTMF_REJ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StopDtmf_01(Ti : TI) <b>PDU Type</b> : STOP_DTMF_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?110001'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StopDtmf_02 <b>PDU Type</b> : STOP_DTMF_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ti	?		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'0?110001'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : StopDtmfAck_01(Ti : TI) <b>PDU Type</b> : STOP_DTMF_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ti	Ti		transaction identifier
ccpd	'0011'B		CC protocol discriminator
mt	'00110010'B		message type
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SyncInfor( bcc : BCC; ncc : NCC) <b>PDU Type</b> : SCHINFO_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> :			
Field Name	Field Value	Field Encoding	Comments
ncc	ncc		PLMN colour code
bcc	bcc		BS colour code
t1	?		
t2	?		
t3_	?		
<b>Detailed Comments</b> : 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			
<b>Constraint Name</b> : SysInf1(cchd : CCHD; maxtx : B_2; txint : B_4; re : B_1)			
<b>PDU Type</b> : SYSINFO1_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf2(bcchfl: NCD; maxtx : B_2; txint : B_4; re : B_1; nccp : NCCP)			
<b>PDU Type</b> : SYSINFO2_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf2ter1(length:LENGTH;fl: NCD2) <b>PDU Type</b> : SYSINFO2ter_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf2bis(bcchflegsm: NCD) <b>PDU Type</b> : SYSINFO2bis_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : 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) <b>PDU Type</b> : SYSINFO3_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : 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) <b>PDU Type</b> : SYSINFO3_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf3_inv_01( mcc, mnc, lac : OCTETSTRING)			
<b>PDU Type</b> : SYSINFO3_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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     new location area arbitrary spare bit arbitrary spare bit
ski	'0000'B		
rrpd	'0110'B		
mt	'00011011'B		
ci	C_ci_cellA		
lai	LocAreaId( mcc, mnc, lac)		
ccd	CntrlChDscrp_inv		
co	CellOpt_04		
csp	CellSelPara_01		
rachcp	RachCntrlPara_01		
si3roct	SI3RestOctet_inv		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf4(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1)			
<b>PDU Type</b> : SYSINFO4_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf4_CBMS(mcc, mnc, lac : OCTETSTRING; crh, mtmc : INTEGER; neci : B_1; maxtx : B_2; txint : B_4; re : B_1; cbchd : CHD)			
<b>PDU Type</b> : SYSINFO4_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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)		
csp	CellSelPara(crh, mtmc, neci)		MCC=001'H, MNC=01'H, LAC=0001'H
rachcp	RachCntrlPara(maxtx, txint, re)		
cbchd	cbchd		PI=0, C2 parameters not present
cbchma	–		
si4roct	SI4RestOctet_CBMS		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf4_inv_01( mcc, mnc, lac : OCTETSTRING)			
<b>PDU Type</b> : SYSINFO4_PDU			
<b>Derivation Path</b> :			
<b>Encoding Rule Name</b> :			
<b>Encoding Variation</b> :			
<b>Comments</b> : 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	LocAreald( mcc, mnc, lac)		new location area
csp	CellSelPara_01		
rachcp	RachCntrlPara_01		
cbchd	—		
cbchma	—		
si4roct	SI4RestOctet_inv		not all rest octets are '2B'O
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf5(bcchfl: NCD) <b>PDU Type</b> : SYSINFO5_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf5bis(bcchfl: NCD) <b>PDU Type</b> : SYSINFO5bis_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : SysInf6(ci : CI; mcc, mnc, lac : OCTETSTRING; co : CO; nccp:NCCP) <b>PDU Type</b> : SYSINFO6_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	LocAreald(mcc, mnc, lac)		
co	co		DTX not allowed, RadioTimeout = 8
nccp	nccp		ncc permitted
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : TmsiReallocCmd(par:MI; mcc, mnc, lac: OCTETSTRING) <b>PDU Type</b> : TMSIRE_CMD_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : TMSI REALLOCATION COMMAND message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'00011010'B		
lai	LocAreald(mcc, mnc, lac)		
mi	par		new TMSI
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : TmsiReallocComp <b>PDU Type</b> : TMSIRE_COM_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : TMSI REALLOCATION COMPLETE message.			
Field Name	Field Value	Field Encoding	Comments
ski	'0000'B		
mmpd	'0101'B		
mt	'0?011011'B		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : UndefCC_02(Ti : TI) <b>PDU Type</b> : CONN_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	–		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : UndefMM_01 <b>PDU Type</b> : ID_RES_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : UndefRR_01 <b>PDU Type</b> : PART_REL_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : UnknownMsg_01( ti : TI) <b>PDU Type</b> : CCST_ENQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : UnknownMsg_02( ti : TI) <b>PDU Type</b> : CCST_ENQ_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataAckPdu_01(ti : TI) <b>PDU Type</b> : CPDATA_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataAckPdu_02(ti :TI) <b>PDU Type</b> : CPDATA_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			



PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataAckPdu_03(ti : TI) <b>PDU Type</b> : CPDATA_ACK_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpErrPdu_01(ti : TI) <b>PDU Type</b> : CPERR_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_01( ti : TI; cpdat : CPDATA) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_02( ti : TI; cpdat : CPDATA) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_03( cpdat : CPDATA) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_04 <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : CP DATA n -> ms, RP Acknowledge GSM 04.11			
Field Name	Field Value	Field Encoding	Comments
ti	Tl_09		transaction identifier M
smspd	'1001'B		SMS protocol discriminator M
mt	'00000001'B		message type M
CPdata	?		RP Acknowledgement
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_any <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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	?		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_16(tpoa1: BCDN; rpoa_mt: BCDN; smtype: INTEGER; text: IA5String; ti : TI; rpmr: MR; timezone : TZONES) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_17(tpoa1: BCDN; rpoa_mt: BCDN; text: IA5String; ti : TI; rpmr: MR; timezone : TZONES) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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)		
<b>Detailed Comments</b> :			

PDU Constraint Declaration			
<b>Constraint Name</b> : CpDataPdu_18( tpda, rpda : BCDN; tpud : TPUD) <b>PDU Type</b> : CP_DATA_PDU <b>Derivation Path</b> : <b>Encoding Rule Name</b> : <b>Encoding Variation</b> : <b>Comments</b> : 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
<b>Detailed Comments</b> :			

# **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_CKSNDDef, 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_CKSNDf, TSPX_RANDDef)			
36		+Cipherring_on( TCV_ch)			
37		L!DL_DatRqSetup			
38		+check( supported)			
39		+PostMainLinkRel(TCV_ch)			
40		(TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))			
		check( supported : BOOLEAN)			
41		[supported]			
42		L_000 1 L?DL_DatInCallCo			
43		[NOT supported]			
44		L_000 2 L?DL_DatInRelCmp			
		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)]			



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))			
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
59		[TSPC_Serv_BS31]			BS31
60		+check(C_Sync1200)			
61		[NOT TSPC_Serv_BS31]			
		testBS32			BS32
62		[TSPC_Serv_BS32]			
63		+check(C_Sync2400)			
64		[NOT TSPC_Serv_BS32]			BS33
		testBS33			
65		[TSPC_Serv_BS33]			
66		+check(C_Sync4800)			BS34
67		[NOT TSPC_Serv_BS33]			
		testBS34			
68		[TSPC_Serv_BS34]			BS41
69		+check(C_Sync9600)			
70		[NOT TSPC_Serv_BS34]			
		testBS41			BS42
71		[TSPC_Serv_BS41]			
72		+check(C_PAD300)			
73		[NOT TSPC_Serv_BS41]			BS43
		testBS42			
74		[TSPC_Serv_BS42]			
75		+check(C_PAD1200)			BS44
76		[NOT TSPC_Serv_BS42]			
		testBS43			
77		[TSPC_Serv_BS43]			BS45
78		+check(C_PAD120075)			
79		[NOT TSPC_Serv_BS43]			
		testBS44			BS46
80		[TSPC_Serv_BS44]			
81		+check(C_PAD2400)			
82		[NOT TSPC_Serv_BS44]			BS51
		testBS45			
83		[TSPC_Serv_BS45]			
84		+check(C_PAD4800)			BS46
85		[NOT TSPC_Serv_BS45]			
		testBS46			
86		[TSPC_Serv_BS46]			BS51
87		+check(C_PAD9600)			
88		[NOT TSPC_Serv_BS46]			
		testBS51			BS52
89		[TSPC_Serv_BS51]			
90		+check(C_Packet2400)			
91		[NOT TSPC_Serv_BS51]			BS52
		testBS52			
92		[TSPC_Serv_BS52]			

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_UdatRqImmch	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_cks, n, 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_000 3	[(srv1 = C_Telephony) OR (srv1 = C_EmgCall)]		(P)	no further check for TS11, TS12

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
118	L_000 4	[(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_000 5	[(srv1 = C_AltSpchFax) OR (srv1 = C_AutoFax)]		(P)	no further check for TS61, TS62
130		local_BS4x_more_chk(srv2 : SERVICES)			
131		[srv2 = C_PAD300]			
132		+local_ce_strc_ir_chk( srv2, TSPX_BS_41_ce, TSPX_BS_41_T_NT)			
133		[srv2 = C_PAD1200]			
134		+local_ce_strc_ir_chk( srv2, TSPX_BS_42_ce, TSPX_BS_42_T_NT)			
135		[srv2 = C_PAD120075]			
136		+local_ce_strc_ir_chk( srv2, TSPX_BS_43_ce, TSPX_BS_43_T_NT)			

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	L_000 6	+local_ce_strc_ir_chk( srv3, TSPX_BS_25_ce, TSPX_BS_25_T_NT)		(P)	no further check
152		[srv3 = C_Async9600]			
153		+local_ce_strc_ir_chk( srv3, TSPX_BS_26_ce, TSPX_BS_26_T_NT)			
	L_000 7	local_BS3x_more_chk(srv4 : SERVICES)		(P)	no further check
154		[srv4 = C_Sync1200]			
155		[srv4 = C_Sync2400]			
156	L_000 8	[( 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	L_000 8	[srv4 = C_Sync4800]		(P)	no further check
160		[( 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)]			
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)]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
162	L_000 9	+local_ce_strc_ir_chk( srv4, TSPX_BS_33_X32_ce, TSPX_BS_33_X32_T_NT)		(P)	no further check
163		[srv4 = C_Sync9600]			
164		[( 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)]			
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	L_001 0	+local_ce_strc_ir_chk( srv4, TSPX_BS_34_X32_ce, TSPX_BS_34_X32_T_NT)		(P)	no further check needed
		local_ce_strc_ir_chk(srv5:SERVICES; ce:B_2; both:BOOLEAN)			
167		[(NOT both) OR ( both AND( TCV_ce = C_nottransparent))]			
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			
	L_001 1	local_temp_tree		(F)	
175		[TCV_ce = C_nottransparent]			
176	L_001 2	[TCV_ce = C_transparent]		(F)	
177		[TCV_strc <> C_Unstructured]			
178	L_001 3	[TCV_strc = C_Unstructured]		(P)	
179	L_001 4	[(TCV_ce <> C_transparent) AND (TCV_ce <> C_nottransparent)]		(P)	
180		[(TCV_ir = C_ir_16kbs) AND (TCV_strc = C_SDUIntegrity)]			
181		[(TCV_ir <> C_ir_16kbs) OR (TCV_strc <> C_SDUIntegrity)]			
	L_001 5	local_BS61orBS81_more_chk(srv6: SERVICES; both1 : BOOLEAN)		(P)	no further check needed
182		[TCV_sa <> C_Asynchronous]			
183		[TCV_sa =C_Asynchronous]			



Continued from previous page

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 Bearer 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	L_001 7	START T_guard(300)			1.
2		+CallCfmGen( 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+RRmtcallprepare( TimingAdv( 0), TSPX_RANDDef)			3.
5		L!DL_DatRqSetup			
6		L?DL_DatInCallCo	SetupSnd( TCV_ch, Setup_03( TI_02))	(P)	4.
7		+PostMainLinkRel(TCV_ch)	CallCfm( TCV_CallCfm)		
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 CONFIRM 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_CKSNDDef, 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_001 8	L?DL_DatInFac CANCEL T_dly	FacilityRcv( FacilityPdu_05( TCV_TI0))	(F)	
13		+release( TCV_chTch)			
14	L_001 9	?TIMEOUT T_dly		(P)	
15		+release( TCV_chTch)			
16	L_002 0	L?DL_DatInFac CANCEL T_dly	FacilityRcv( FacilityPdu_05( TCV_TI0))	(F)	
17		+release( TCV_chTch)			
18	L_002 1	?TIMEOUT T_dly		(P)	
19		+release( TCV_chTch)			
20		test2 +ltree_estMOcall_U4			
21		L!DL_DatRqFac START T_dly(15000)	FacilitySnd(TCV_chTch, FacilityPdu_25( TCV_TI, facilityIEtsnd( FwdChAdvSS_01)))		
22	L_002 2	L?DL_DatInFac CANCEL T_dly	FacilityRcv( FacilityPdu_05( TCV_TI0))	(F)	
23		+release( TCV_chTch)			
24	L_002 3	?TIMEOUT T_dly		(P)	
25		+release( TCV_chTch)			
26		test3 +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_002 4	L?DL_DatInFac CANCEL T_dly	FacilityRcv( FacilityPdu_05( TI_01))	(F)	
32		+release( TCV_ch)			
33	L_002 5	?TIMEOUT T_dly		(P)	
34		+release( TCV_ch)			
35		test4 +BasicServiceMO( TSPX_MOBscSvcB, TSPX_MOChRateB)			
36		+Est_MO_Call( TimingAdv( 0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			

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_002 6	L?DL_DatInFac CANCEL T_dly	FacilityRcv( FacilityPdu_05( TCV_TI0))	(F)	
39		+PostMainLinkRel(TCV_chTch)			
40	L_002 7	?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 (	ChReq( ChRequest_15)		
		TCV_Rr := DL_RacInChRq. msg.ecau_rrf,			
		TCV_Fn := DL_RacInChRq.fn)			
46		ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
47		L!DL_UdatRqImm	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( CMSerReq_01)		
49		ACTIVATE( OtherEventsFail)			Restore Normal default
50		+Authentication( TCV_ch, TSPX_CKSNDDef, 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)			
<b>Detailed Comments :</b> 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.					

### 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 messages will 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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_TIO))	(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 message, 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 messages will 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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( CMSerServiceReq_01)		
12		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMSerServiceAcp_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)			
<b>Detailed Comments :</b> 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_003 3	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_003 4	?TIMEOUT T_dly		(P)	
12		+continue			
		continue			
13		LIDL_UdatRqPg1Rq (DL_UdatRqPg1Rq.pgg := TCV_Pgg)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		5.
14		START T_dly( 3000)			
15	L_003 5	L?DL_RacInChRq CANCEL T_dly	ChReq( ChRequest_02)	(F)	
16	L_003 6	?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 attempt 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_003 7	[NOT TCV_Res]		(F)	2.
8	L_003 8	[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_003 9	[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	L_004 0	[TCV_Fk >= 0]		(F)	5.
16		(TCV_Res := OC_SaveAndProc1( TCV_Fk, C_SAVE, TCV_Cnt, TCV_Upd))			
17		[NOT TCV_Res]			
18		(TCV_Cnt := 200)			
19	L_004 1	CANCEL T_dly	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))	(P)	6.
20		[TCV_Res ]			
21		LIDL_UdatRqImmRej (TCV_Cnt := TCV_Cnt+1)			
22		?TIMEOUT T_dly			
<b>Detailed Comments :</b> 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]			
5		ltree_main			
6		[TCV_Cnt1 = 0] +IdleUpdated( 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_CKSNDf, 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_MaxPwrLvIG, C_MaxPwrLvID, 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_CKSNDf, 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)			
21		localtree(mode: BOOLEAN)			
22		(TCV_kcnt := 0, TCV_M :=0)			
23		REPEAT localtree1(mode) UNTIL [TCV_kcnt =TCV_K ]			
24	L_004 2	(TCV_Res :=OC_InRang( TSPX_Txint, TSPX_MaxRetrans, TCV_M)) [TCV_Res ]		(P)	
25	L_004 3	[NOT TCV_Res]		(F)	
26		localtree1(mode: BOOLEAN) 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)			
33		localtree2(mode: BOOLEAN) 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)		

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_004 4	[(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_004 5	[(TCV_Fk < TCV_S) OR (TCV_Fk > (TCV_S+TSPX_Txint - 1))]		(F)	6.
41	L_004 6	localtree3 [TCV_kcnt = TCV_K]		(P)	
42		[TCV_kcnt < TCV_K]			
43		LIDL_UdatRqlImmassRej	ImmAssRej( TCV_agch, ImmAsgnRej_02( TCV_Rr, TCV_Fn))		
<b>Detailed Comments</b> : 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_CKSNDDef, 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_004 7	[TCV_Res ]		P	
8	L_004 8	[NOT TCV_Res]		F	2.
		localtree1			
9		LIDL_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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+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			
8		procedure1			
9		+ImsiDetachNoReaction ( 5000, C_SIMIn)			2.
10		+ImsiAttachNoReaction( 30000, C_SIMIn)			4.
11		procedure2			
12		[TSPC_SIMRmv ]			
13		(TCV_Null :=OO_SIMRmv())			6.
14		+NoReaction( 5000)			3.
15		(TCV_Null := OO_SIMIns())			7.
16		+NoReaction( 30000)			5.
17		[NOT TSPC_SIMRmv]			
18		procedures3			
19		+MM_PwrOrSimOff (C_SIMIn)			
20		[(TSPC_DetachOnPwrDn ) OR (TSPC_SwitchOnOff )]			
		+imsidetach			
		+MM_PwrOrSimOn (C_SIMIn)			
		+locup( MiTmsi_02iei)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21	L_004 9	[(NOT TSPC_DetachOnPwrDn) AND (NOT TSPC_SwitchOnOff )]		(P)	9.  Restore Normal default 10.
22		+MM_PwrOrSimOn (C_SIMIn)			
23		+locup( MiTmsi_02iei)			
24		procedures4			
25		[(TSPC_SIMRmv ) AND (TSPC_DetachOnSIMRmv )]			
26		(TCV_Null :=OO_SIMRmv())			
27		+imsidetach			
28		(TCV_Null := OO_SIMIns())			
29		+locup( MiTmsi_01iei)			
30		[(NOT TSPC_SIMRmv) AND (TSPC_DetachOnPwrDn )]			
31		+MM_PwrOrSimOff (C_SIMIn)			
32		+imsidetach			
33		+MM_PwrOrSimOn (C_SIMIn)			
34		+locup( MiTmsi_01iei)			
35		[[((NOT TSPC_SIMRmv ) AND (NOT TSPC_DetachOnPwrDn)) OR ((NOT TSPC_DetachOnSIMRmv) AND (TSPC_SIMRmv )) OR ((NOT TSPC_DetachOnSIMRmv) AND (NOT TSPC_DetachOnPwrDn))]]			
36		+MM_PwrOrSimOff (C_SIMIn)			
37		+MM_PwrOrSimOn (C_SIMIn)			
38		+locup( MiTmsi_01iei)			
39		activitychk(t: INTEGER)			
40		START T_dly(t)			
41		?TIMEOUT T_dly			
42		locup( newmi : MI)			
43		+channelrequest			
44		L?DL_EstInLupRq			
45		LOCUP( TCV_ch, LocUpdtReq_01( C_imsi_attach))			
46		ACTIVATE(OtherEventsFail)			
47		L!DL_DatRqLupAcp			
48		LOCACP( TCV_ch, LocUpdtAcp_01( newmi, C_MCC_1, C_PLMN_1, TCV_lac))			
49		TmsiReallocCmp( TCV_ch)			
50		L?DL_DatInTmsireCom			
51		+channelrelease			
52		imsidetach			
53		+channelrequest			
54		L?DL_EstInImsidIn			
55		ImsiDet( ImsiDetach_01)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48		ACTIVATE(OtherEventsFail)			Restore Normal default
49		+channelrelease			
50		channelrequest			
51		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)		To match ChReq retrans.
52		ACTIVATE(OtherEventsFail_02)			
53		L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
54		channelrelease			
		L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_01)		
		L?DL_Relln	DlRelInd_01		
<b>Detailed Comments :</b> 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	body	START T_guard(300)			
2		+IdleUpdated( C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immase, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		LIDL_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		LIDL_UdatRqImmase	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		LIDL_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
15		localtree L!DL_DatRqldRq	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_DatRqldRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
19		L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)	IDRes( IDResponse_01)		
20	L_005 2	[OC_Bit7(TCV_Mt) = '0'B]		(P)	1.
21		(TCV_Cnt := TCV_Cnt+1)			
22	L_005 3	[OC_Bit7(TCV_Mt) = '1'B]		(F)	
23		(TCV_Cnt := TCV_Cnt+1)			
		check1			
24	L_005 4	[OC_Bit7(TCV_Mt) = '1'B]		(F)	
25	L_005 5	[OC_Bit7(TCV_Mt) = '0'B]		(P)	
		check2			
26	L_005 6	[OC_Bit7(TCV_Mt) = '0'B]		(F)	
27	L_005 7	[OC_Bit7(TCV_Mt) = '1'B]		(P)	2.
<b>Detailed Comments</b> : 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCCConfigTCH(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		+Est_MO_Call( TimingAdv( 0), TCV_ChRate, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
7		(TCV_Null := OM_Deactivate( TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			
8		+localtree			
9	L_005 8	localtree (TCV_Cnt :=0)	ChReq( ChRequest_10)	(P)	3.
10		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
11		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
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		
13		localtree1	ChReq( ChRequest_10)		3.		
14		L?DL_RacInChRq (TCV_Cnt := TCV_Cnt +1 )					
15		local_HalfRateSvcOtherwiseFullRate (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]					otherwis e
37		(TCV_Service1 := TSPX_MOBscSvcA, TCV_ChRate1 := TSPX_MOChRateA)					
<b>Detailed Comments</b> : 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_CKSNDDef, 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			
7		ltree_body			
8		+Est_MO_Call( TimingAdv( 0), C_Half, TSPX_RANDDef, TSPX_SDCCH4SubDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
9		(TCV_Null := OM_Deactivate( TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			3.
10		(TCV_Cnt :=0)			
11	L_005 9	REPEAT localtree UNTIL [TCV_Cnt=7]  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_006 0	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		[C_Yes]					I	no half rate service	
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+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)			
6		+neci1Behaviour			
7	L_006 1	neci0Behaviour	ChReq( ChRequest_04)	(P)	4.
8		+InitCall(TCV_Service)			
9		(TCV_Cnt :=0)			
10		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
11		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
12		L!DL_UdatRqImmassRej			
13		ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))			
14		neci1Behaviour			
15		START T_dly(30000)			
16		?TIMEOUT T_dly			
17		+InitCall(TCV_Service) (TCV_Cnt := 0) REPEAT localtree2 UNTIL [TCV_Cnt=7] [NOT TSPC_DualRate]			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	L_006 2	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)	(P)	6.
19		L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))		
20	L_006 3	[TSPC_DualRate]			7.
21		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_05)	(P)	
22		L!DL_UdatRqImmRej	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]			7.
26		L?DL_RacInChRq	ChReq( ChRequest_05)		
27		(TCV_Cnt := TCV_Cnt +1 )			
28		[NOT TSPC_DualRate]			6.
29		L?DL_RacInChRq	ChReq( ChRequest_04)		
30		(TCV_Cnt := TCV_Cnt +1 )			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+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)			
7		START T_dly( 30000)			
8		?TIMEOUT T_dly			
9		+neci1Behaviour			
10	L_006 4	neci0Behaviour	ChReq( ChRequest_04)	(P)	5.
11		+InitCall(TCV_Service)			
12		(TCV_Cnt :=0)			
13		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
14		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
15		L!DL_UdatRqImmassRej			
16		ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))			
17		neci1Behaviour +InitCall( TCV_Service) (TCV_Cnt := 0) +local_rcv_ChRq			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	L_006 5	L!DL_UdatRqImmssRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))	(P)	7.
19		local_rcv_ChRq			
20		[TSPC_DualRate AND TSPC_HalfRateData]			
21		REPEAT localtree2 UNTIL [TCV_Cnt=7]			
22		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_06)		
23	L_006 6	[C_Yes]		(P)	5.
24		REPEAT localtree1 UNTIL [TCV_Cnt=7]			
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)		
26		localtree1			
27		L?DL_RacInChRq (TCV_Cnt := TCV_Cnt + 1 )	ChReq( ChRequest_04)		
28		localtree2			7.
29		L?DL_RacInChRq (TCV_Cnt := TCV_Cnt + 1 )	ChReq( ChRequest_06)		
30		local_PickupDataService			
31		[(TSPX_MOBscSvcA <> C_Telephony) AND (TSPX_MOBscSvcA <> C_EmgCall)]			
32		(TCV_Service1 := TSPX_MOBscSvcA, TCV_ChRate1 := TSPX_MOChRateA)			
33		[(TSPX_MOBscSvcB <> C_Telephony) AND (TSPX_MOBscSvcB <> C_EmgCall)]			
34		(TCV_Service1 := TSPX_MOBscSvcB, TCV_ChRate1 := TSPX_MOChRateB)			
35		[(TSPX_MOBscSvcC <> C_Telephony) AND (TSPX_MOBscSvcC <> C_EmgCall)]			
36		(TCV_Service1 := TSPX_MOBscSvcC, TCV_ChRate1 := TSPX_MOChRateC)			
37		[(TSPX_MOBscSvcD <> C_Telephony) AND (TSPX_MOBscSvcD <> C_EmgCall)]			
38		(TCV_Service1 := TSPX_MOBscSvcD, TCV_ChRate1 := TSPX_MOChRateD)			
39		[(TSPX_MOBscSvcE <> C_Telephony) AND (TSPX_MOBscSvcE <> C_EmgCall)]			
40		(TCV_Service1 := TSPX_MOBscSvcE, TCV_ChRate1 := TSPX_MOChRateE)			
41		[(TSPX_MOBscSvcF <> C_Telephony) AND (TSPX_MOBscSvcF <> C_EmgCall)]			
42		(TCV_Service1 := TSPX_MOBscSvcF, TCV_ChRate1 := TSPX_MOChRateF)			
43		[(TSPX_MOBscSvcG <> C_Telephony) AND (TSPX_MOBscSvcG <> C_EmgCall)]			
		(TCV_Service1 := TSPX_MOBscSvcG, TCV_ChRate1 := TSPX_MOChRateG)			
		[(TSPX_MOBscSvcH <> C_Telephony) AND (TSPX_MOBscSvcH <> C_EmgCall)]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
44	L_006 7	(TCV_Service1 := TSPX_MOBscSvcH, TCV_ChRate1 := TSPX_MOChRateH)		I	no data service
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		[C_Yes]			
<b>Detailed Comments</b> : 1. The Max_retrans =7. 2. To set NECl = 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 the 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_CKSNDDef, 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_006 8	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_006 9	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_UdatRqImmRej	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_007 0	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_UdatRqImmRej	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_007 1	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_14)	(P)	
25		L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))		
		localtree1			
26	L_007 2	L?DL_RacInChRq	ChReq( ChRequest_12)	(P)	2.
27		(TCV_Cnt := TCV_Cnt +1)			
		localtree2			
28	L_007 3	L?DL_RacInChRq	ChReq( ChRequest_03)	(P)	5.
29		(TCV_Cnt := TCV_Cnt +1)			
		localtree3			
30		[TCV_CC AND ( NOT TSPC_DualRate) ]			
31	L_007 4	L?DL_RacInChRq	ChReq( ChRequest_12)	(P)	7.
32		(TCV_Cnt := TCV_Cnt +1)			
33		[TSPC_DualRate ]			
34	L_007 5	L?DL_RacInChRq	ChReq( ChRequest_07)	(P)	8.
35		(TCV_Cnt := TCV_Cnt +1)			
36		[TSPC_SDCCHOnly ]			
37	L_007 6	L?DL_RacInChRq	ChReq( ChRequest_03)	(P)	9.
38		(TCV_Cnt := TCV_Cnt +1)			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39	L_007 7	localtree4 [TCV_CC AND ( NOT TSPC_DualRate) ]	ChReq( ChRequest_12)	(P)	11.
40		L?DL_RacInChRq			
41		(TCV_Cnt := TCV_Cnt +1)			
42	L_007 8	[TSPC_DualRate ]	ChReq( ChRequest_08)	(P)	12.
43		L?DL_RacInChRq			
44		(TCV_Cnt := TCV_Cnt +1)			
45	L_007 9	[TSPC_SDCCHOnly ]	ChReq( ChRequest_03)	(P)	13.
46		L?DL_RacInChRq			
47		(TCV_Cnt := TCV_Cnt +1)			
<b>Detailed Comments :</b> 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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]			
5		ltree_main +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_MaxPwrLvIG, C_MaxPwrLvID, 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_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29	L_008 0	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)			
32		UpdatingCheck( t : INTEGER; locup : B_2)			
33		(TCV_Cnt := 0)			
34		START T_dly( t)			
35	L_104 1	?TIMEOUT T_dly		(F)	
36		REPEAT localtree1 UNTIL [TCV_Cnt = 8]			
37		L!DL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
38		L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_01( locup))	(P)	
39		L!DL_DatRqLupAcp	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		6.
40		+PostMainLinkRel(TCV_ch)			
41	L_008 1	imsiDetachCheck			
42		+MM_PwrOrSimOff (C_SIMIn)			12.
43		(TCV_Cnt := 0)			
44		REPEAT localtree2 UNTIL [TCV_Cnt = 8]			
45		L!DL_UdatRqImmassRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))		
46		+MM_PwrOrSimOn (C_SIMIn)			2.
47	L_008 2	localtree1			
48		[TCV_Cnt1=0]			
49		L?DL_RacInChRq	ChReq( ChRequest_09)	(P)	4.
50		(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
51		CANCEL T_dly			
52		(TCV_Cnt := TCV_Cnt+1)			
53	L_008 3	[TCV_Cnt1=1]			
54		L?DL_RacInChRq	ChReq(ChRequest_18)	(P)	8.
55		(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
56		(TCV_Cnt := TCV_Cnt+1)			
57		localtree2			
58		[TCV_Cnt1=0]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
53	L_008 4	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_008 5	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)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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]			
5		ltree_main +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_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
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_008 6	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_008 7	L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))	(P)	4.
14		(TCV_Cnt1 := TCV_Cnt1 +1 )			
15		[TCV_Cnt1=1]			
16		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_03)		
17		L!DL_UdatRqImmRej	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 )			
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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]			
5		ltree_main +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_MaxPwrLvIG, C_MaxPwrLvID, 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_008 8	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_008 9	L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))	(P)	4.
14		(TCV_Cnt1 := TCV_Cnt1 +1 )			
15		[TCV_Cnt1=1]			
16		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_03)		
17		L!DL_UdatRqImmRej	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 )			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_13, BcchFreqLst_13, C_noRestablishment, C_BCC, C_NCC_0, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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		+MM_PwrOrSimOn (C_SIMIn)			
6		(TCV_Null := OO_PLMNselModeMan())			
7		+PLMNsCHK			
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	body	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_CKSNDDef, 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		+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_CKSNDf, 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_009 0	L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))	(P)	2.  Restore Normal default
14		L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_05)		
15		ACTIVATE( OtherEventsFail)			
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)			
20		(TCV_Null := OO_PLMNselModeAuto())			1.
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		[TCV_CC]			
4	L_009 1	+BasicServiceMT( TSPX_MTBscSvcA, TSPX_MTChRateA)	Unknown(TCV_chTch, UnknownMsg_01( TI_02))	(P)	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		+PreEnterCCstateU10( TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
7	L_009 2	LIDL_DatRqUnknown	Unknown( TCV_ch, UnknownMsg_02( TI_04))	(P)	3.
8		START T_dly(10000)			
9		?TIMEOUT T_dly			
10	L_009 2	+PostMainLinkRel( TCV_chTch)			4.
11		[NOT TCV_CC]			
12		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
13	L_009 2	LIDL_DatRqUnknown			
14		START T_dly(10000)			
15		?TIMEOUT T_dly			
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_009 3	?TIMEOUT T_dly		(P)	
8		localtree 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_009 4	(TCV_Cnt := TCV_Cnt+1)		(P)	

**Detailed Comments** : 1. To send PAGING REQUEST TYPE 1 message with unknown skip indicator.

## 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		L!DL_UdatRqPg1Rq			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
5		L!DL_UdatRqImmass START T_dly1(1000)			2.
6		+chRq_check			4.
7		L!DL_UdatRqImmassRej START T_dly1(1000)			
8		+chRq_check			
9		+continue			valid message
10		continue L!DL_UdatRqImmass			
11		L?DL_EstInPgRes			
12		L!DL_DatRqAuthRq			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13	L_009 5	L?DL_DatInAuthRes	AuthRes( AuthResponse)	(P)	5.
14		L!DL_DatRqCphmCmd	CphCmd( TCV_ch, CphModeCmd_inv_02)		
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))		
18		+check2			
19		L!DL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd_inv_01( TCV_slot, TCV_tsc, C_NCC_1, C_BCC_3, C_arfcnA))		
20		+check3			
21		L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_inv_02)		
22		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0001'B))		
23	L_009 6	L?DL_DatInIdRes	IDRes( IDResponse_01)	(F)	9.
24		+PostLinkRelEnd( TCV_ch)			
25		check2			
26		START T_dly(3000)			
27		L?DL_EstIn	DLEstInd( TCV_ch)		
28		?TIMEOUT T_dly			
29		check3			
30		START T_dly(3000)			
31		L?DL_EstIn	DLEstInd( TCV_ch)		
32		L?DL_DatInHofl	HndOvFIRcv( TCV_ch, HandOvFail_01)		
33	L_009 8	L?DL_DatInRrst	RrStatusRcv( TCV_ch, RRStatus_01)	(F)	8.
34		?TIMEOUT T_dly			
35		chRq_check			
36		L?DL_RacInChRq	ChReq( ChRequest_17)		
37		(TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
38		CANCEL T_dly1			
39		?TIMEOUT T_dly1			
40					
41					
42					
43	L_010 0			(P)	3.
44					
45					
46					
47					
48					
49					
50					
51					
52					
53	L_010 1			(F)	6.
54					
55					
56					
57					
58					
59					
60					
61					
62					
63	L_010 2			(F)	
64					
65					
66					
67					
68					
69					
70					
71					
72					

**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.

*Continued from previous page*

Test Case Dynamic Behaviour
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<b>Detailed Comments</b> : ...
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- |   |
|---|
| <ul style="list-style-type: none"><li>7. To send an invalid HANDOVER COMMAND message with skip indicator = 5.</li><li>8. To check that there is no HANDOVER FAILURE or RR-STATUS message on old channel.</li><li>9. To send an invalid CHANNEL RELEASE message with skip indicator = 6.</li></ul> |
|---|

## 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		[TCV_CC ]			
4		+BasicServiceMT( TSPX_MTBscSvcB, TSPX_MTChRateB)			
5		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			1.
7		+maintest1			2.
8		[NOT TCV_CC]			
9		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
10		+maintest2			
11	L_010 3	maintest1 (TCV_Cnt := 0)	IDReq( TCV_chTch, IDRequest_inv_01( 8))	(P)	3.
12		REPEAT subtree1 UNTIL [TCV_Cnt = 6]			
13		!DL_DatRqldRq			
14		START T_dly( 5000)			
15		?TIMEOUT T_dly			
16		+PostMainLinkRel(TCV_chTch)			
17		maintest2 (TCV_Cnt := 0)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	L_010 4	REPEAT subtree2 UNTIL [TCV_Cnt = 6]	IDReq( TCV_ch, IDRequest_inv_01( 8))	(P)	4.
19		L!DL_DatRqldRq			
20		START T_dly( 5000)			
21		?TIMEOUT T_dly			
22	L_010 5	+PostMainLinkRel(TCV_ch)	IDReq( TCV_chTch, IDRequest_inv_01( TCV_Cnt+1))	(P)	3.
23		subtree1			
24		L!DL_DatRqldRq			
25		START T_dly( 1000)			
26	L_010 6	?TIMEOUT T_dly	IDReq( TCV_ch, IDRequest_inv_01( TCV_Cnt+1))	(P)	4.
27		(TCV_Cnt := TCV_Cnt + 1)			
28		subtree2			
29		L!DL_DatRqldRq			
30		START T_dly( 1000)			
		?TIMEOUT T_dly			
		(TCV_Cnt := TCV_Cnt + 1)			
<b>Detailed Comments</b> : 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 message 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_CKSNDf, 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_CKSNDf, 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	L_010 7	+test_b2	Disc_inv( TCV_chTch, Disconn_inv_01( TI_03))  RelComRcv( ReleaseCmp_52( TI_05))  RelComSnd( TCV_chTch, ReleaseCmp_02( TI_04))	(P)	1.
9		+test_b3			
10		+test_c			
11		test_a LIDL_DatRqDisc			
12		L?DL_DatInRelCmp			
13		+CCstatuschk_01( TCV_chTch, C_U10)			
14		test_b1 LIDL_DatRqRelCmp			
15		START T_dly( 5000)			
16		?TIMEOUT T_dly			
17		+CCstatuschk_01( TCV_chTch, C_U10)			
18	L_010 8	test_b2 LIDL_DatRqSetup	SetupSnd( TCV_chTch, Setup_inv_01( TI_01))  SetupSnd( TCV_chTch, Setup_03( TI_02))	(P)	3.
19		START T_dly( 5000)			
20		?TIMEOUT T_dly			
21		+CCstatuschk_01( TCV_chTch, C_U10)			
22		test_b3 LIDL_DatRqSetup			
23	L_010 9	START T_dly( 5000)		(P)	4.
24		?TIMEOUT T_dly			
25		+CCstatuschk_01( TCV_chTch, C_U10)			
26	L_011 0	test_c LIDL_DatRqDisc	Disc_inv( TCV_chTch, Disconn_inv_01( TI_06))	(P)	5.
27		START T_dly( 5000)			
28		?TIMEOUT T_dly			
29		+CCstatuschk_01( TCV_chTch, C_U10)			
30		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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_CKSNDDef, TSPX_RANDDef)			
6	body	L!DL_DatRqUndefCC	UndefCC( TCV_chTch, UndefCC_02( TI_02))		1.
7	L_011 1	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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_CKSNDDef, TSPX_RANDDef)			
6	body	L!DL_DatRqUndefMM	UndefMM( TCV_chTch, UndefMM_01)		1.
7	L_011 2	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			
7		maintree +IdleUpdated( C_E_default, C_CellA, 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_CKSNDDef, 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_011 3	L?OTHERWISE		F	L3 msg received
13	L_011 4	?TIMEOUT T_dly		(P)	
14		[TSPC_MTsvc]			2.
15		+Authentication( TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)			
16		+Ciphering_on( TCV_ch)			
17		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		
18	L_011 5	L?DL_DatInCallCo	CallCfm( CallConfirm_01( TI_01))	(P)	

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19	L_011 6	+PostMainLinkRel( TCV_ch)	SetupSnd( TCV_ch, Setup_01( TI_02))  RelComRcv( ReleaseCmp_03( TI_01))	(P)	3.
20		[NOT TSPC_MTsvc]			
21		L!DL_DatRqSetup			
22		L?DL_DatInRelCmp			
23		+PostMainLinkRel( TCV_ch)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			1.
6	body	L!DL_DatRqCallProc	CallProc( TCV_chTch, CallProced_01( TI_02))		2.
7	L_011 7	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	body	START T_guard(300)	ChReq_01( TCV_RaCh, ChRequest_09)		1.     To match ChReq retrans.  2.    Restore Normal default
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_CKSNDf, 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		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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)			
6		ACTIVATE( OtherEventsFail_02)			
7		LIDL_UdatRqImmass			
8		L?DL_EstInLupRq			
9		ACTIVATE( OtherEventsFail)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	L_011 8	L!DL_DatRqLupAcpErr	LocAcp_inv( TCV_ch, Milmsi_01iei, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_2)	(P)	3.
11		L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_01)		4.
12		L?DL_RelIn	DLRelInd_01		
13		START T_dly( 5000)			
14		?TIMEOUT T_dly			5.
15		+localtree			
		localtree			
16		L!DL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		5.
17		START T_dly( C_T_Wait)			
18		?TIMEOUT T_dly			
19		L!DL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_05)		
20		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq_01( C_RACH_B_1, ChRequest_01)		
21		L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))		
<b>Detailed Comments</b> : 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_CKSNDDef, 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_011 9	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_CKSNDDef, 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_012 0	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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		[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_CKSNDDef, TSPX_RANDDef)			
7		LIDL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_inv_02( TSPX_TmSltDef, TSPX_TscDef, C_NCC_1, C_BCC_3, C_arfcnA))		2.
8	L_012 1	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		LIDL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd_inv_02( TSPX_TmSltDef, TSPX_TscDef, C_NCC_1, C_BCC_3, C_arfcnA))		4.
13	L_012 2	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)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6	body	L!DL_DatRqldRq	IDReq( TCV_chTch, IDRequest_inv_02)		1.
7	L_012 3	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			
7		maintree			
8		+IdleUpdated( C_E_default, C_CellA, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
9	body	+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))	IDReq( TCV_ch, IDRequest_inv_02)		1.
10	L_012 4	LIDL_DatRqIdRq	MMSt( MMstatus_02)	(P)	
11		[TSPC_MTsvc]			2.
12		+Authentication(TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)			
13		+CIPHERING_on(TCV_ch)			
14		LIDL_DatRqSetup	SetupSnd( TCV_ch, TCV_Setup_mt)		
15	L_012 5	L?DL_DatInCallCo	CallCfm( CallConfirm_01( TI_01))	(P)	
16		+PostLinkRelEnd( TCV_ch)			
17		[NOT TSPC_MTsvc]			3.
18		LIDL_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_012 6	L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_03( TI_01))	(P)	
20		+PostLinkRelEnd( TCV_ch)			
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_CKSNDDef, 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, Milmsi_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_012 7	L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_01)	(P)	
23		L?DL_RelIn	DLRelInd_01		
<b>Detailed Comments :</b> 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_CKSNDf, 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_CKSNDf, TSPX_RANDDef)			
6	body	LIDL_DatRqDisc	Disc_inv( TCV_chTch, Disconn_inv_02( TI_02))		1.
7	L_012	L?DL_DatInRel	ReleaseRcv( Release_01( TI_01))	(P)	
8	8	LIDL_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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6	body	LIDL_DatRqCcst	CCStSnd( TCV_chTch, CCStatus_inv_01( TI_02))		1.
7	L_012 9	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+PreEnterCCstateU3( TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
5	body	LIDL_DatRqConnErr	Conn_invSnd( TCV_ch, Connect_inv_01( TCV_TI))		1.
6	L_013 0	L?DL_DatInCcst	CCStRcv( TCV_ch, CCStatus_04( TCV_TI0))	(P)	2.
7		+CCstatuschk_03(C_U3, TCV_TI)			3.
8		LIDL_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_CKSNDf, 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			
5		ltree_body			
6		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)		
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)))		
		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	L_013 1	ACTIVATE( OtherEventsFail)	LocAcp_inv( TCV_ch, Mi_02, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)  TmsiReallocCmp( TCV_ch)	(P)	Restore Normal default 3.
11		L!DL_DatRqLupAcpErr			
12		L?DL_DatInTmsireCom			
13		+local_postamble			4.
14		+PostMainLinkRel(TCV_ch)			
15		local_postamble +TmsiReallocation( MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)			
<b>Detailed Comments</b> : 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_CKSNDf, 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			
5		ltree_body			
6		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
7		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)		
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)))		
		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	L_013 2	ACTIVATE( OtherEventsFail)	LocAcp_inv( TCV_ch, Mi_06, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)  TmsiReallocCmp( TCV_ch)	(P)	Restore Normal default 3.
11		LIDL_DatRqLupAcpErr			
12		L?DL_DatInTmsireCom			
13		+local_postamble			4.
14		+PostMainLinkRel( TCV_ch)			
15		local_postamble +TmsiReallocation( MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)			
<b>Detailed Comments</b> : 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	body	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+PreEnterCCstateU1( TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
5		LIDL_DatRqCallProc	CallProc( TCV_ch, CallProced_inv_02( TCV_TI))		1.
6		+CCstatuschk_03(C_U3, TCV_TI)			2.
7		LIDL_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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDf, TSPX_RANDDef)			1.
6	body	L!DL_DatRqDiscErr	Disc_inv_err( TCV_chTch, Disconn_inv_03( TI_02))		2.
7	L_013 3	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	body	START T_guard(300)			1.			
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)						
6		(TCV_Null := OO_TermCall())						
7		L?DL_DatInDisc				DiscRcv( TCV_chTch, DisconnR( TI_01, Cause_Def))		
8		LIDL_DatRqRel				ReleaseSnd( TCV_chTch, ReleaseReq_inv_01( TI_02))		
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	body	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDf, TSPX_RANDDef)			
6	body	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
7		L?DL_DatInRel	ReleaseRcv( Release_02)		
8		LIDL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_inv_02( TI_02))		1.
9	L_013 5	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_CKSNDDef, 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_013 6	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, MobiAllic_02, MobiAllic_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_013 7	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_013 8	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+modifysysinfo			
4	body	START T_dly(30000)			
5	L_013 9	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq( ChRequest_09)	(P)	
6		LIDL_UdatRqImmassRej	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rr, TCV_Fn))		
7	L_014 0	?TIMEOUT T_dly		F	
8		modifysysinfo			
9		[TSPC_PGSM OR TSPC_EGSM] LIDL_UdatRqSysinfo3	SysInfo3_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		1.
10		LIDL_UdatRqSysinfo4	SysInfo4_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		
11		[TSPC_DCS]			
12		LIDL_UdatRqSysinfo3 (DL_UdatRqSysinfo3.msg.csp := CellSelPara_04)	SysInfo3_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)		1.
13		LIDL_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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		To match ChReq retrans. 1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+localtree1			
4	L_014 1	localtree1	ImmAss( TCV_agch, ImmAsgn_inv_04( TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TimingAdv_inv, TCV_chdescr_arfcn))  PagingRes( PagingRes_01)	(P)	Restore Normal default
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
6		ACTIVATE(OtherEventsFail_02)			
7	L_014 2	L! DL_UdatRqImmass	ChRel( TCV_ch, ChRelease_01)  DLRelInd_01	(P)	
8		L?DL_EstInPgRes			
9		ACTIVATE(OtherEventsFail)			
10		L!DL_DatRqChRel			
11		L?DL_RelIn			
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_014 3	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)	P	2.
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))		
18		START T_dly(6000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
21		L?DL_RacInChRq	ChReq( ChRequest_17)		
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	body	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_CKSNDf, 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		+Ciphering_on( TCV_ch)			
7		(TCV_Setup_mt.sig := Signal_01)			
8		LIDL_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			
14		localtree1 +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, MoblAlc_r03, MoblAlc_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.
<b>Detailed Comments</b> : 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					
<b>Test Case Name</b> : TC_26_5_7_2 <b>Group</b> : BiBo/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</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( 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_CKSNDDef, 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_014 4	L?DL_DatInAuthRes	AuthRes( AuthResponse)	(P)	
6		L!DL_DatRqIdRq	IDReq( TCV_ch, IDRequest_inv_03)		2.
7	L_014 5	L?DL_DatInIdRes	IDRes( IDResponse_02)	(P)	
8		+PostLinkRelEnd( TCV_ch)			
<b>Detailed Comments</b> : 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+FullRateCh_A_1( C_Ass, TSPX_TmSlitDef, 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	LIDL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest( TSPX_CKSNDDef, TSPX_RANDDef))		
7		L?DL_DatInAuthRes	AuthRes( AuthResponse)		
8		+Cipherring_on( TCV_ch)			
9		+localtree			
10		localtree (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		LIDL_DatRqSetup	SetupSnd( TCV_ch, Setup_inv_02( TI_02))		1.
12	L_014 6	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	ConnRcv( Connect_01( TI_01))		2.
17		L?DL_DatInConn			
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			
22		L!DL_DatRqDisc			
23		+CCstatuschk_01( TCV_chTch, C_U12)			
24		L!DL_DatRqRel			
25		L?DL_DatInRelCmp	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))		
26		+PostMainLinkRel( TCV_chTch)	Disc_inv( TCV_chTch, Disconn_inv_04( TI_02))		
			ReleaseSnd( TCV_chTch, Release_03( TI_02))		
			RelComRcv( ReleaseCmp_03( TI_01))		
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_TmSlitDef, 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_TmSlitDef, 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_Immash, 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.
22		channelass( ch : LOGICCH)			
23		L!DL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
24		L?DL_RacInChRq( TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) START T_dly( C_T_Wait)	ChReq( ChRequest_17)		
25	L_014 7	L!DL_UdatRqImmash	ImmAss( TCV_agch, ImmAsgn_r( ChDescrip_nfh( TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn), TCV_Rr, TCV_Fn, TimingAdv( 30)))		
26		+PostMainLinkRel( ch)	PgRes( ch, PagingRes_01)	(P)	
<b>Detailed Comments :</b> 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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+firstPart			2.
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)			
6		+Varinit_tch( C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubC, C_Immass, TSPX_TmSlitDef, 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	L_014 8	[(TSPX_nPara < 9) AND (TSPX_nPara > 0) AND (TSPX_i1Para > TSPX_nPara-3) AND (TSPX_i1Para <= TSPX_nPara)]	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)	(P)				
13		LIDL_UdatRqPg1Rq						
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.			
17		LIDL_UdatRqImmssx			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))	7.		
						3.		
18		L?DL_EstInPgRes			PgRes( TCV_ch, PagingRes_01)			
19		+PostMainLinkRel(TCV_ch)						
20		START T_dly(12000)						
21		?TIMEOUT T_dly						
22		L_014 9			[C_Yes]		(I)	
23		secondPart						
		[(TSPX_kPara < 9) AND (TSPX_kPara > 3) AND (TSPX_i2Para > 0) AND (TSPX_i2Para <= (TSPX_kPara-3))]						
		LIDL_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.			
28	LIDL_UdatRqImmssx	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))			10.			
					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 ]							

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
34		+ltree_noL2			
35	L_015 0	[C_Yes]		(I)	
36		ltree_noL2			
37	L_015 1	START T_dly(3000) L?OTHERWISE		F	
38	L_015 2	?TIMEOUT T_dly		(P)	
39		START T_dly(7000)			
40		?TIMEOUT T_dly			
41		thirdPart [(TSPX_rPara < 9) AND (TSPX_rPara > 3) AND (TSPX_i3Para > (TSPX_rPara-3)) AND (TSPX_i3Para <= TSPX_rPara)]			
42		LIDL_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		LIDL_UdatRqImmssx	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_015 3	L?DL_EstInPgRes	PgRes( TCV_ch, PagingRes_01)	(P)	
48		+PostMainLinkRel(TCV_ch)			
49	L_015 4	[C_Yes]		(I)	
50		localTree 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))			
<b>Detailed Comments :</b> 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					

## 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	body	START T_guard(300)			2. The LAI is the same as cell A.
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_SDCCH4SubDef, TSPX_CKSNDDef, 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)			
4		+test1			
5		+ltree_switchcelltoB			
6		+test2			
7		test1			
8		[(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)]			
9		LIDL_UdatRqPg1Rq			
10		(TCV_Cnt := 0) REPEAT localTree UNTIL [TCV_Cnt = TSPX_n1Para]			
			PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		Cell A

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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_015 5	[C_Yes]  test2		(I)	
18		START T_dly(20000)			
19		?TIMEOUT T_dly			
20		L!DL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		Cell B
21	L_015 6	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))		
23		continuePaging 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))			

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_015 7	(TCV_Time := 0)		(F)	Fail return
28		[(TCV_Time > (TSPX_xPara * 1000)) OR (TCV_Time = 0)]			received btw x, x+1 s.
29	L_015 8	(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_015 9	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
36	L_016 0	localTree 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))			
39		ltree_switchcelltoB +Varinit_fix( C_CellB, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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))			
<b>Detailed Comments</b> : 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3	body	LIDL_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		LIDL_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_016 1	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)	(P)	
9		LIDL_UdatRqImmassRej	ImmAssRej( TCV_agch, ImmAsgnRej_r02( TCV_Rr, TCV_Fn))		
10		+localtree1			
11	L_016 2	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)	(P)	
12		LIDL_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	L_016 3	START T_dly(6000)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)  ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))	P	3.
16		?TIMEOUT T_dly			
17		L!DL_UdatRqPg1Rq			
18		L?DL_RacInChRq (TCV_Rr := OC_BinAdd(DL_RacInChRq.msg.ecau_rrf, '00000010'B), TCV_Fn := DL_RacInChRq.fn)			
19		L!DL_UdatRqImm			
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)			
23		L!DL_UdatRqImmRej			
24		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
25	L_016 4	L!DL_UdatRqImmRej	ImmAssRej( TCV_agch, ImmAsgnRej_r02( TCV_Rr, TCV_Fn))  ChReq( ChRequest_17)	(P)	
26		?TIMEOUT T_dly			
<b>Detailed Comments :</b> 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	
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**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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_016 5	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)			
<b>Detailed Comments</b> : 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	body	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_noReestablishment, 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		+test1			
5		+test2			
6		+test3			
7		+test4			
8		+test5			
9	L_016 6	test1 L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)	(P)	1.
10		+local_immass			
11		L?DL_EstInPgRes			
12		+PostMainLinkRel(TCV_ch)			
13		test2 ?TIMEOUT T_dly			
14	L_016 7	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r01)	(P)	2.
15		+local_immass			
16		L?DL_EstInPgRes			
17		+PostMainLinkRel(TCV_ch)			
18		test3 ?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	L_016 8	+local_immass	PagingRes( PagingRes_r02)	(P)	4.
21		L?DL_EstInPgRes			
22		+PostMainLinkRel(TCV_ch)			
23		test4			
24	L_016 9	?TIMEOUT T_dly	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r03)	(P)	5.
25		L!DL_UdatRqPg1Rq			
26		+local_immass			
27		L?DL_EstInPgRes			
28	L_017 0	+PostMainLinkRel(TCV_ch)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r04)	P	6.
29		test5			
30		?TIMEOUT T_dly			
31		L!DL_UdatRqPg1Rq			
32	L_017 1	START T_dly(1000)	ChReq( ChRequest_17)	F	
33		?TIMEOUT T_dly			
34		L?OTHERWISE			
35		local_immass			
36	L_017 2	L?DL_RacInChRq	ChReq( ChRequest_17)		
37		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
38		[(TSPX_CcchConf1 = C_cch_1nonComb) OR (TSPX_CcchConf1 = C_cch_2nonComb) OR (TSPX_CcchConf1 = C_cch_3nonComb) OR (TSPX_CcchConf1 = C_cch_4nonComb)]			
39		L!DL_UdatRqImmass START T_dly( 12000)			
40	L_017 2	[TSPX_CcchConf1 = C_cch_1Comb]	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))	I	
41		L!DL_UdatRqImmass START T_dly( 12000)			
42		[TSPX_CcchConf1 = C_cch_2Comb] OR (TSPX_CcchConf1 = C_cch_3Comb) OR (TSPX_CcchConf1 = C_cch_4Comb)]			
43		local_tree			
44	L_017 2	[TSPX_CcchConf1 = C_cch_1Comb]	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
45		[TSPX_CcchConf1 <> C_cch_1Comb]			
46	L_017 2	+Varinit_tch( C_arfcn_tchA, C_arfcn_tchAd)			

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))			
<b>Detailed Comments :</b> <ol style="list-style-type: none"> <li>1. Within the paging request message, the 1st MI contains IMSI of the MS, the 2nd is absent.</li> <li>2. Within the paging request message, the 1st MI contains TMSI of the MS, the 2nd has the IMSI of an another MS.</li> <li>3. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the IMSI of the MS.</li> <li>4. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the TMSI of the MS.</li> <li>5. Within the paging request message, the 1st MI contains TMSI of the MS together with type of no identity, the 2nd is absent .</li> <li>6. If received any L3 frame FAIL.</li> </ol>					

## 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_CKSNDf, 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			
9		test1 L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r01)		1.
10		+localtree			
11	L_017 3	L?DL_EstInPgRes	PagingRes( PagingRes_r01)	(P)	
12		+PostMainLinkRel(TCV_ch)			
13		test2 ?TIMEOUT T_dly			
14		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r02)		2.
15		+localtree			
16	L_017 4	L?DL_EstInPgRes	PagingRes( PagingRes_r01)	(P)	
17		+PostMainLinkRel(TCV_ch)			
18		test3 ?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19	L_017 5	L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r03)	(P)	3.
20		+localtree			
21		L?DL_EstInPgRes	PagingRes( PagingRes_r01)		
22		+PostMainLinkRel(TCV_ch)			
23		test4			
24	L_017 6	?TIMEOUT T_dly		(P)	4.
25		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r04)		
26		+localtree			
27		L?DL_EstInPgRes	PagingRes( PagingRes_r02)		
28		+PostMainLinkRel(TCV_ch)			
29	L_017 7	test5		P	5.
30		?TIMEOUT T_dly			
31		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r05)		
32		START T_dly(1000)			
33		?TIMEOUT T_dly			
34	L_017 8	L?OTHERWISE		F	6.
35		localtree			
36		L?DL_RacInChRq	ChReq( ChRequest_17)		
37		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
38		[(TSPX_CcchConf2 = C_cch_1nonComb) OR (TSPX_CcchConf2 = C_cch_2nonComb) OR (TSPX_CcchConf2 = C_cch_3nonComb) OR (TSPX_CcchConf2 = C_cch_4nonComb)]			
39	L_017 9	L!DL_UdatRqImmss START T_dly( C_T_Wait)	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))	I	
40		[TSPX_CcchConf2 = C_cch_1Comb]			
41		L!DL_UdatRqImmss 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)))		
42		[(TSPX_CcchConf2 = C_cch_2Comb) OR (TSPX_CcchConf2 = C_cch_3Comb) OR (TSPX_CcchConf2 = C_cch_4Comb)]			
43		local_tree			
44	L_017 10	[TSPX_CcchConf2 = C_cch_1Comb]			
45		[TSPX_CcchConf2 <> C_cch_1Comb]			

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))			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_tree			
4		+test1			
5		+test2			
6		+test3			
7		+test4			
8	L_018 0	test1 L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r01)	(P)	2.
9		+local_immass			
10		L?DL_EstInPgRes			
11		+PostMainLinkRel(TCV_ch)			
12		test2			
13	L_018 1	?TIMEOUT T_dly L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r02)	(P)	3.
14		+local_immass			
15		L?DL_EstInPgRes			
16		+PostMainLinkRel(TCV_ch)			
17		test3			
18		?TIMEOUT T_dly 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_018 2	L?DL_EstInPgRes	PagingRes( PagingRes_r01)	(P)	5.
21		+PostMainLinkRel(TCV_ch)			
22		test4			
23		?TIMEOUT T_dly			
24	L_018 3	L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r04)		
25		+local_immass			
26		L?DL_EstInPgRes	PagingRes( PagingRes_r01)	(P)	
27		+PostMainLinkRel(TCV_ch)			
28		local_immass			
29		L?DL_RacInChRq	ChReq( ChRequest_17)		
30		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
31		[(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]			
32		L!DL_UdatRqImmass START T_dly( C_T_Wait)	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubE, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))		
33		[TSPX_CcchConf3 = C_cch_1Comb]			
34	L_018 4	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)))		I
35		[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]			
36		local_tree			
37		[TSPX_CcchConf3 = C_cch_1Comb]			
38		[TSPX_CcchConf3 <> C_cch_1Comb]			
39		+Varinit_tch( C_arfcn_tchA, C_arfcn_tchAd)			
40		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubE, C_Immass, TSPX_TmSlitDef, 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))			
<b>Detailed Comments :</b> 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					

### 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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+test1			
4		+test2			
5		+test3			
6		+test4			
7		+test5			
8	L_018 5	test1 (TCV_Null := OM_2Msgs( TCV_PgCh, TCV_Pgg, C_NxtButOne))	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_06)  PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_02)	(P)	2.
9		L!DL_UdatRqPg1Rq			
10		L!DL_UdatRqPg1Rq			
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))			
12		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))			
13		L!DL_UdatRqImmassRej START T_dly( C_T_Wait)	ImmAssRej( TCV_agch, ImmAsgnRej_03( TCV_Rqr.ra, TCV_Rqr.fn))		3.
14		test2 ?TIMEOUT T_dly			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15	L_018 6	(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?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.
21		test3			
22		?TIMEOUT T_dly			
23		(TCV_Null := OM_2Msgs( TCV_PgCh, TCV_Pgg, C_NxtButOne), TCV_Rqr9 := OC_SaveAndRetrv( TCV_Rqr, C_RETRV, 11, 1))			
24		+gsmOrDcs1			6.
25		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r05)		7.
26		+ltree_chreq			
27		test4			
28		?TIMEOUT T_dly			
29		(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))			
30		L!DL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_01)		8.
31		L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r06)		9.
32		+ltree_chreq			
33		test5			
34		?TIMEOUT T_dly			
35	(TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))				
36	L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_02)		8.	
37	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)		10.	
38	+ltree_chreq				
39	?TIMEOUT T_dly				
40	ltree_chreq				
41	L?DL_RacInChRq	ChReq( ChRequest_02)			

Test Case Dynamic Behaviour							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
38	L_018 7	L?DL_RacInChRq( TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)	(P)			
39		LIDL_UdatRqImmaseRej START T_dly( C_T_Wait)	ImmAssRej( TCV_agch, ImmAsgnRej_03( TCV_Rqr.ra, TCV_Rqr.fn))				
40		gsmOrDcs [(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]					
41		LIDL_UdatRqImmase_sp	ImmAssSp( TCV_PgCh, TCV_Pgg, ImmAsgn_nfh( TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_Tchtype, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn, C_extended_paging))			4.	
42		[TSPX_CcchConf3 = C_cch_1Comb]					
43		LIDL_UdatRqImmase_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_018 8	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]				I
45		gsmOrDcs1 [(TSPX_CcchConf3 = C_cch_1nonComb) OR (TSPX_CcchConf3 = C_cch_2nonComb) OR (TSPX_CcchConf3 = C_cch_3nonComb) OR (TSPX_CcchConf3 = C_cch_4nonComb)]					
46	LIDL_UdatRqImmase_x_sp	ImmAssXSp( TCV_PgCh, TCV_Pgg, ImmAsgnX_01( TCV_Rqr9.ra, TCV_Rqr9.fn, TSPX_SDCCH8SubDef, TSPX_SDCCH8SubA, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))	6.				
47	[TSPX_CcchConf3 = C_cch_1Comb]						
48	LIDL_UdatRqImmase_x_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_018 9	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I			
		ltree_sdccch					

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_AGBLK3, 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_019 0	[(TSPX_CcchConf3 = C_cch_2Comb) OR (TSPX_CcchConf3 = C_cch_3Comb) OR (TSPX_CcchConf3 = C_cch_4Comb)]		I	
<b>Detailed Comments :</b> 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_019 1	[(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		LIDL_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_019 2	LIDL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)	(P)	3.	
17		+ltree_chreq				
18		test2 (TCV_Null := OM_PgFill(C_CellA, PgReqTp1Reorg))				
19		?TIMEOUT T_dly				
20		LIDL_UdatRqPg2Rq	PgReq2(TCV_PgCh, INT_TO_BIT( TSPX_PgSubch, 8), PgReqTp2_03)		4.	
21		+ltree_chreq				
22		test3( cch_con : B_3) 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		LIDL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		5.	
27		+ltree_chreq				
28		?TIMEOUT T_dly				
29		LIDL_UdatRqPg2Rq	PgReq2( TCV_PgCh, TCV_Pgg, PgReqTp2_01)		5.	
30		+ltree_chreq				
31		?TIMEOUT T_dly				
32		ltree_chreq				
33		L?DL_RacInChRq	ChReq( ChRequest_02)			
34		L?DL_RacInChRq( TCV_Rqr.ra := DL_RacInChRq.msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)			
35		LIDL_UdatRqImmassRej START T_dly( C_T_Wait)	ImmAssRej( TCV_agch, ImmAsgnRej_01( TCV_Rqr.ra, TCV_Rqr.fn))			5s wait
36		ltree_waitSelectPaging (TCV_Null := OM_PgFill( C_CellA, PgReqTp1Reorg))				
37		START T_dly( C_T_Wait)				5s wait
38		+CCCH_group_Paging_group( TCV_Ccd0A, TSPX_IMSI)				
39		+SelectPagingCh( C_CellA)				
40		?TIMEOUT T_dly (TCV_Null := OM_PgFill( C_CellA, PgReqTp1Norm))				
41		START T_dly( 3000)				3s wait

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
42		?TIMEOUT T_dly			
<b>Detailed Comments :</b> 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 reorganisation", not address the MS. 3. Paging mode = "normal", address the MS by TMSI. 4. Page mode = "paging reorganisation", 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	body	START T_guard(300)			4.
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)]			
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		(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		LIDL_UdatRqImmassx_sp			
7		+localtree			
8		[TSPX_CcchConf2 = C_cch_1Comb]			
9		LIDL_UdatRqImmassx_sp			
10		+localtree			
			ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_04( TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( TSPX_TimadvB), TCV_chdescr_arfcn))		
			ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_02( 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
11	L_019 3	[(TSPX_CcchConf2 = C_cch_2Comb) OR (TSPX_CcchConf2 = C_cch_3Comb) OR (TSPX_CcchConf2 = C_cch_4Comb)]		I	Reserved
12	L_019 4	(((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.
13		localtree L!DL_UdatRqPg2Rq	PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)		3.
14		L?DL_RacInChRq	ChReq( ChRequest_02)		
15	L_019 5	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))		
<b>Detailed Comments</b> : 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 reorganisation. 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 parameters.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		(TCV_Null := OM_2Msgs( TCV_PgCh, TCV_Pgg, C_NxtButOne))			
4		LIDL_UdatRqImmassRej_sp	ImmAssRejSp( TCV_PgCh, TCV_Pgg, ImmAsgnRej_r04)		2.
5	L_019 6	LIDL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_03)		3.
6		(TCV_Null := OM_2Msgs( TCV_PgCh, TCV_Pgg, C_NxtButOne))			
7		LIDL_UdatRqPg3Rq	PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_02)		4.
8		LIDL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_07)		5.
9	L_019 6	L?DL_RacInChRq	ChReq( ChRequest_17)		
10		L?DL_RacInChRq (TCV_Rqr.ra := DL_RacInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)	(P)	
11		LIDL_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 parameters.

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 reorganisation", 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 parameters.  
 $((\text{IMSI mod } 10000) \bmod (\text{cc} * (9 - \text{bsagres}) * \text{bspamfrms})) > (9 - \text{bsagres}) * \text{bspamfrms}$  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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	L_106 4	[TCV_Ccchg <= 0]		I	wrong combina tion of PIXIT values – see 11.10-1
5		[C_Yes]			TCV_Cc chg > 0
6		+Varinit_tch( C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubF, C_Immass, TSPX_TmSlitDef, 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_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubF, TSPX_TmSltDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))		
12	L_019 7	L?DL_EstInPgRes	PgRes( TCV_ch, PagingRes_r02)	(P)	
13		ACTIVATE( OtherEventsFail)			Restore Normal default
14		+PostMainLinkRel( TCV_ch)			
15	L_019 8	[C_Yes]		I	Finish test immediat ely as wrong cell control channel type
<b>Detailed Comments</b> : 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					
<b>Test Case Name</b> : TC_26_6_3_1 <b>Group</b> : RR/ <b>Purpose</b> : To test that, when the SS gives absolutely no information about neighbouring cells, the MS does not report on neighbouring cells.. <b>Configuration</b> : <b>Default</b> : OtherEventsFail_01 <b>Comments</b> :					
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_CKSNDf, 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_TmSlitDef, 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_CKSNDf, TSPX_RANDDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
7	body	(TCV_Null := OM_StartMsrReport( TCV_sacchTch))			
8	L_019 9	L?DL_UdatInMsrRpt	MsrRept( MsrReport_01)	(P)	
9		START T_dly1( 960)			960 ms
10	L_020 0	?TIMEOUT T_dly1		(F)	2.
11		+PostMainLinkRel( TCV_chTch)			
12	L_020 1	L?DL_UdatInMsrRpt	MsrRept( MsrReport_01)	(P)	

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Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
13	L_020 2	(TCV_Null := OM_StopMsrReport(TCV_sacchTch))	MsrRept( MsrReport_01)	(F)	1.  960 ms 2.	
14		+PostMainLinkRel( TCV_chTch)				
15		+local_execution2				
16		local_execution2				
17		+local_SysInfo5and6Sending				
18		+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSlTDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)				
19		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))				
20		L?DL_UdatInMsrRpt				
21		START T_dly1( 960)				
22		?TIMEOUT T_dly1				
23		+PostMainLinkRel( TCV_chTch)				
24		L?DL_UdatInMsrRpt				
25		(TCV_Null := OM_StopMsrReport(TCV_sacchTch))				
26		+PostMainLinkRel( TCV_chTch)				
27		local_SysInfo5and6Sending				
28		+Wait(C_T_Wait1)				
29		[TSPC_PGSM OR TSPC_EGSM]				
30		L!DL_UdatRqSysinfo5				
31		L!DL_UdatRqSysinfo5bis				
32		[TSPC_DCS]				
33		L!DL_UdatRqSysinfo5				
	L!DL_UdatRqSysinfo5bis					
	L!DL_UdatRqSysinfo6 (DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)					
		SysInfo5( TCV_sacch, SysInf5( BcchFreqLst_24))				SysInfo5bis( TCV_sacch, SysInf5bis( BcchFreqLst_26))
<b>Detailed Comments</b> : 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					
<b>Test Case Name</b> : TC_26_6_3_2					
<b>Group</b> : RR/					
<b>Purpose</b> : To test that, when the SS gives information about neighbouring cells, the MS reports appropriate results.					
<b>Configuration</b> :					
<b>Default</b> : OtherEventsFail_01					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)	MsrRept( MsrReport_03)	(F)	960 ms 1.
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_CKSNDf, 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_TmSlitDef, 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_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_CKSNDf, TSPX_RANDDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
10		(TCV_Null := OM_StartMsrReport( TCV_sacchTch))			
11		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
12		+ChkMsrmntRpt(indx1, indx2)			
13		START T_dly1(960)			
14	?TIMEOUT T_dly1				

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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		+ChkMsrmtRpt(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))		
<b>Detailed Comments</b> : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.					



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_26_6_3_3 <b>Group</b> : RR/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail_01 <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_020 5	START T_guard(300)	MsrRept( MsrReport_04)	(F)	960 ms 1.
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_CKSNDf, 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_CKSNDf, 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)			
9		+ChkMsrmntRpt(4, 5)			
10		START T_dly1(960)			
11		?TIMEOUT T_dly1			
12		+PostMainLinkRel( TCV_chTch)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13	L_020 6	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_04)	(F)	960 ms 1.
14		+ChkMsrmntRpt(4, 5)			
15		(TCV_Null := OM_StopMsrReport( TCV_sacchTch))			
16		+PostMainLinkRel(TCV_chT ch)			
17		+local_execution2			
		local_execution2			
18		+local_SendSysinfo5and6			
19		+PreEnterCCstateU10_r01(TimingAdv( 30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDf, 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)			
24		?TIMEOUT T_dly1			
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					
<b>Test Case Name</b> : TC_26_6_3_4 <b>Group</b> : RR/ <b>Purpose</b> : 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 <b>Configuration</b> : <b>Default</b> : OtherEventsFail_01 <b>Comments</b> :					
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC_1, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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)			
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)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9	body	+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubDef, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltC, TSPX_TscC, TSPX_TCHHSubDef, TCV_ChRate)	DLEstInd( TCV_chTch1) HndOvCmpRcv( TCV_chTch1, HandOverCmp_01) MDLRelReq(TCV_chTch)	(F)	Release the original channel
10		+local_HndovCmd			
11		+local_RcvHndovAcc			
12		L?DL_EstIn			
13		L?DL_DatInHoCom			
14		L!MDL_RelRq			
15		+local_continue1			
16		local_continue1			
17		(TCV_Null := OM_StartMsrReport( TCV_sacchTch))			
18		[NOT TSPC_TranspDataOnly ]			
19		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
20		+ChkMsrmntRpt(6, 7)			
21		START T_dly1(960)			
22		?TIMEOUT T_dly1			
23		+PostMainLinkRel( TCV_chTch)			
24	L_020 7	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_05)	(F)	960 ms 1.
25		+ChkMsrmntRpt(6, 7)			
26		(TCV_Null := OM_StopMsrReport( TCV_sacchTch))			
27		+PostMainLinkRel( TCV_chTch)			
28		+local_execution2			
29		[TSPC_TranspDataOnly ]			
30		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
31		+ChkMsrmntRpt(6, 7)			
32		START T_dly1(960)			
33		?TIMEOUT T_dly1			
34		+PostMainLinkRel(TCV_chTch)			
35		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
36		+ChkMsrmntRpt(6, 7)			
37		(TCV_Null := OM_StopMsrReport( TCV_sacchTch))			
38		+PostMainLinkRel( TCV_chTch)			
39	L_020 8	+local_execution2	MsrRept( MsrReport_06)	(F)	960 ms 1.
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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39	L_020 9	local_execution2			2.
40		+local_SendSysInfo5and6			
41		START T_dly(20000)			
42		?TIMEOUT T_dly			
43		+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
44		+local_HndovCmd			
45		+local_RcvHndovAcc			
46		L?DL_EstIn	DLEstInd( TCV_chTch1)		
47		L?DL_DatInHoCom	HndOvCmpRcv( TCV_chTch1, HandOverCmp_01)		
48		LIMDL_RelRq	MDLRelReq(TCV_chTch)		
49		+local_continue2			
50		local_continue2			
51		(TCV_Null := OM_StartMsrReport(TCV_sacchTch))			
52		[NOT TSPC_TranspDataOnly ]			
53		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_05)		
54		+ChkMsrmntRpt(6, 7)			
55		START T_dly1(960)			960 ms
56	L_020 9	?TIMEOUT T_dly1		(F)	1.
57		+PostMainLinkRel( TCV_chTch)			
58		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_05)		
59		+ChkMsrmntRpt(6, 7)			
60		(TCV_Null := OM_StopMsrReport( TCV_sacchTch))			
61		+PostMainLinkRel( TCV_chTch)			
62		+local_execution2			
63		[TSPC_TranspDataOnly ]			
64		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_06)		
65		+ChkMsrmntRpt(6, 7)			
66		START T_dly1(960)			960 ms
67	L_021 0	?TIMEOUT T_dly1		(F)	1.
68		+PostMainLinkRel(TCV_chTch)			
69		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_06)		
70		+ChkMsrmntRpt(6, 7)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
69		(TCV_Null := OM_StopMsrReport( TCV_sacchTch))			
70		+PostMainLinkRel( TCV_chTch)			
71		local_RcvHndovAcc 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)		
75		local_HndovCmd (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))		
80		local_SendSysInfo5and6 [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]			

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))		
<b>Detailed Comments</b> : 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 appropriate results.

**Configuration** :

**Default** : OtherEventsFail\_01

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDf, 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_TmSlitDef, 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		+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubA, 0, 3, TSPX_CKSNDf, TSPX_RANDDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			
8		(TCV_Null := OM_StartMsrReport( TCV_sacchTch))			
9		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
10		+ChkMsrmtRpt(8, 9)			
11		+local_continue			
12		local_continue START T_dly1(960)			960 ms

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13	L_021 1	?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_CKSNDf, 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		?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_CKSNDf, 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

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39	L_021 3	?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_CKSNDDef, 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_TmSlitNotZero, TSPX_TscDef, ChMod_sign, FreqBCCH( C_arfcnA), FreqBCCH( C_arfcnAd_4), TimingAdv( 30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			2.
4		LIDL_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_CKSNDf, 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)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36	L_105 4	ltree_AssCh_complete(oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU) L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)	(F)	
37		?TIMEOUT T_dlyAss			
38		+PostLinkRelEnd(oldch)			
39		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(newch)		
40	L_105 5	(TCV_Fn := OM_ReturnFn(oldch))		(F)	
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)			
44	L_021 4	ltree_AssCh_complete1(oldch,newch:LOGICCH; pdu_ass: ASS_CMD_PDU) L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)	(F)	
45		?TIMEOUT T_dlyAss			
46		+PostLinkRelEnd(oldch)			
47		L?DL_EstIn CANCEL T_dlyAss	DLEstInd(newch)		
48	L_021 5	(TCV_Fn:=OM_ReturnFn(oldch), TCV_L1Head:=OM_GetL1Hd(TCV_sacchTch))		(P)	
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_106 0	[TCV_L1Head.mspwrlvl<>'00111'B]		(F)	
53		[TCV_L1Head.mspwrlvl='00111'B]			
54		ltree_AssCh_complete4(oldch,newch:LOGICCH; pdu_ass: ASS_CMD_PDU) L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)		
55		?TIMEOUT T_dlyAss			
56	L_105 6	+PostLinkRelEnd(oldch)		(F)	
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	L_105 7	+FnArith(TCV_Fn,TCV_Fn1)		(P)	
61		[NOT (TCV_Positive)]			
62		[TCV_Positive]			
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)		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
67	L_105 8	+FnArith(TCV_Fn, TCV_Fn1)		(F)	
68		[NOT (TCV_Positive) ]			
69	L_105 9	[TCV_Positive ]		(P)	
70		ltree_ImmAss	ImmAss( TCV_agch, ImmAsgn_sdcch8( TCV_Rr, TCV_Fn, TSPX_TmSlitNotZero, TSPX_TscDef, TSPX_SDCCH8SubDef, C_arfcnA, TimingAdv( 30)))		
71		[TSPC_PGSM OR TSPC_EGSM] L!DL_UdatRqlmass			
72		[TSPC_DCS]	ImmAss( TCV_agch, ImmAsgn_sdcch8( TCV_Rr, TCV_Fn, TSPX_TmSlitDef, TSPX_TscDef, TSPX_SDCCH8SubDef, C_arfcnAd_4, TimingAdv( 30)))		
73		L!DL_UdatRqlmass			
74		ltree_Asgn1 (TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_slit2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) + 1) MOD 8), 3))			
75		[TSPC_PGSM OR TSPC_EGSM]			
76		+Config_FACCHF_A_1(C_E_default, 7, ChMod_sign, C_Ass, TCV_slit2, 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_slit2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod_sign_iei, MoblAllic_r01, CphMod_omit))			
79		[TSPC_DCS]			
80		+Config_FACCHF_A_1(C_E_default, 7, ChMod_sign, C_Ass, TCV_slit2, 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_slit2, TSPX_TscDef, 7, '000001'B, '000001'B, Frql_omit, CellChDes_Omit, ChMod_sign_iei, MoblAllic_r01, CphMod_omit))			
		ltree_Asgn2			

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_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) + 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_sl2, 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_sl2, 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_sl2, 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_sl2, 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_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) + 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_sl2, 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_sl2, TSPX_TscDef, 9, '000011'B, '001000'B, Frql_omit, CellChDes_Omit, ChMod_omit, MobilAllc_r02, CphMod_omit))			
98		[TSPC_DCS]			
99		+Config_FACCHF_A_1(C_E_default, 9, ChMod_speech, C_Ass, TCV_sl2, TSPX_TscDef, FreqTCHa6, C_TCHF_ACCHF_1, TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			

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_sl2, TSPX_TscDef, 9, '000011'B, '001000'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAllc_r04, CphMod_omit))			
102		ltree_Asgn4 (TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1 := C_SACCHF_A_2, TCV_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) + 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_sl2, 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_sl2, 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_sl2, 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_sl2, TSPX_TscDef, 14, C_arfcnAd_5, CellChDes_Omit, ChMod_sign_iei, StartingTm_01(TCV_Fn1), CphMod_omit))			
111		ltree_Asgn5 (TCV_chTch := OC_SubchOfFacchh( TSPX_TCHHSubDef, C_CellA, 1), TCV_sacchTch := OC_SubchOfSacchh( TSPX_TCHHSubDef, C_CellA, 1), TCV_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) +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_sl2, 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)			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
115		(TCV_AssCmd := AsgnCmd_tchh_fh( TSPX_TCHHSubDef, TCV_sl2, 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_sl2, 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_sl2, 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_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) +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_sl2, 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_sl2, 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_sl2, 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_sl2, TSPX_TscDef, 9, C_arfcnAd_6, CellChDes_Omit, ChMod_omit, StartingTm_omit))			
		ltree_Asgn7			
129		(TCV_sl2 := INT_TO_BIT((( BIT_TO_INT( TSPX_TmSlitNotZero) + 1) MOD 8), 3))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
130		+FullRateCh_A_1_nociph( C_Ass, TCV_sl2, 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_sl2, 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_sl2, TSPX_TscDef, 15, '000000'B, '101000'B, Frql_omit, CellChDes_r02, ChMod_omit, MoblAllc_r03, CphMod_omit))			
		ltree_ZeroCheck			
135		[TCV_sl2 = '000'B]			3.
136		(TCV_sl2 := '111'B)			
137		[C_Yes]			
<b>Detailed Comments</b> : 1. Default parameters exept CA. 2. The time slot is TSPX_TmSlitNotZero ('N'), the ARFCN is the BCCH carrier. 3. Test will fail if $(N+3) \text{ MOD } 8 = 0$ , 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_Immasc, 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_Full)			1.
6	body	+localtree			
7		localtree			
8		+AssCmdGen( TCV_cellid, C_Full, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
9		+AssCh_failure( TCV_chTch, TCV_AssCmd, FALSE)			
10		+localtree3			
11		+localtree1			
12		localtree1			
13		[TSPC_DualRate ]			
		+Wait(C_T_Wait1)			
		(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)			3.
15		+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubA, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubA, C_Half)			
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]			6.
23	L_022 1	[TCV_L1Head.mspwrlvl <> '00111'B]		(F)	
24		+PostMainLinkRel(TCV_chTch)			
25	L_022 2	[TCV_L1Head.mspwrlvl = '00111'B]		(P)	
26		+PostMainLinkRel(TCV_chTch)			6.
27		[TSPC_DCS]			
28	L_022 3	[TCV_L1Head.mspwrlvl <> '00011'B]		(F)	
29		+PostMainLinkRel(TCV_chTch)			
30	L_022 4	[TCV_L1Head.mspwrlvl = '00011'B]		(P)	
31		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)  ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))  PagingRes( PagingRes_01)		
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		L!DL_UdatRqPg1Rq			
4		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
5		L!DL_UdatRqImmass			
6		L?DL_EstInPgRes			
7		+localtree			
8		localtree (TCV_AssCmd := AsgnCmd_tchf_fh( C_S3, C_BCC, 7, '000000'B, '000100'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAlc_04, CphMod_omit))			
9		+Adjust_gsmanddcs_powerlv( 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
16		localtree1 (TCV_AssCmd := AsgnCmd_tchh_fh( '0'B, '001'B, TSPX_TscDef, 7, '000001'B, '000110'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAlIc_04, CphMod_omit))			4.
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)			
20		(TCV_AssCmd := AsgnCmd_tchf_fh( C_S3, C_BCC, 7, '000000'B, '000100'B, Frql_omit, CellChDes_Omit, ChMod_omit, MoblAlIc_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, MoblAlIc_04, CphMod_omit))			
24		+Adjust_gsmanddcs_powerlvl( 7, 3)			
25		+AssCh_failure( TCV_chTch, TCV_AssCmd, FALSE)			
26		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments</b> : 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_MTBScSvcl, TSPX_MTChRatel)			
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_noReestablishment, 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)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		local_handover (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)			
22		local_send_hoCMD			
23		[(TCV_M = 3) OR (TCV_M = 5)] (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)		
27		local_channel_config			
28		+local_ch_config (TCV_ch := TCV_chTch)			
29		local_ch_config			
30		[TCV_M = 1] (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)			2.
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			



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_TmSlitNotZero, 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_TmSlitC, 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)			

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)			

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)			

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_022 5	[(TCV_Time > 5) OR (TCV_Time < 0)]		(F)	10.
109	L_022 6	[(TCV_Time >= 0) AND (TCV_Time <= 5)]		(P)	
110		[TCV_M = 5]			
111	L_022 7	[(TCV_Time > 10) OR (TCV_Time < 0)]		(F)	10.
112	L_022 8	[(TCV_Time >= 0) AND (TCV_Time <= 10)]		(P)	
113		[C_Yes]			
		local_handover2			
114		[TSPC_PGSM OR TSPC_EGSM]			

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			

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))			
130		local_HoCMD_nofh (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))			
<b>Detailed Comments :</b> 0. IUT enters state U10 with TCH/F_nonFH in cell A 1. PhylInfo 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_CKSNDDef, 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	body	+Est_MO_Call_init( C_CHSDCCH4_NonFH, MoblAlc_omit, MoblAlc_omit, TimingAdv( 30), C_BCC, C_one, C_one)	PhyInfo_01(TCV_ch, TimingAdv(20))		1.
9		(TCV_nc := '010'B)			
10		+Check_Cells_Present (TCV_nc, TCV_sacch)			
11		+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			
16		+RR_hocomp1( 500, TCV_chTch1)			
17		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.m t)	SetupRcv( SetupInd_01)		3.
18		+SendSeqNo_chk			4.
19		+ChanRel_end( TCV_ch)			
20		ltree_sendHoCMD			
21	[TSPC_PGSM OR TSPC_EGSM] 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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))	2.		
22	[TSPC_DCS]				



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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
24		localtree_setArfcn			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		(TCV_chdescr_arfcn:= C_arfcnA)			
27		[TSPC_DCS]			
		(TCV_chdescr_arfcn:= C_arfcnAd_4)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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 coincide nt at the antenna connect or.
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	body	+Est_MO_Call_init( C_CHSDCCH4_NonFH, MoblAlc_omit, MoblAlc_omit, TimingAdv( 30), C_BCC, C_one, C_one)	PhyInfo_01(TCV_ch, TimingAdv(20))		1.
9		(TCV_nc := '010'B)			
10		+Check_Cells_Present (TCV_nc, TCV_sacch)			
11		+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			
16		+RR_hocomp1( 750, TCV_chTch1)			
17		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.m t)			3.
18		+SendSeqNo_chk			
19	post	+ChanRel_end( TCV_ch)			4.
20		local_sendHoCMD (TCV_Tchtype := INT_TO_BIT(( 2 + BIT_TO_INT( TSPX_TCHHSubDef)), 5))			
21		[TSPC_PGSM OR TSPC_EGSM]			2.
22		L!DL_DatRqHoCmd			
23		[TSPC_DCS]	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, MoblAlc_252, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

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, MoblAlc_252d, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
25		local_setArfcn			
26		[TSPC_PGSM OR TSPC_EGSM]			
27		(TCV_chdescr_arfcn:= C_arfcnA)			
28		[TSPC_DCS]			
		(TCV_chdescr_arfcn:= C_arfcnAd_4)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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	body	+Est_MO_Call_init( C_CHSDCCH4_NonFH, MoblAlc_omit, MoblAlc_omit, TimingAdv( 30), C_BCC, C_one, C_one)	PhyInfo_01(TCV_ch, TimingAdv(20))		1.
9		+localtree_setArfcn			
10		(TCV_nc := '010'B)			
11		+Check_Cells_Present (TCV_nc, TCV_sacch)			
12		+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			
17		+RR_hocomp1(1500, TCV_chTch1)			
18		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg. mt)			3.
19		+SendSeqNo_chk			
20	post	+ChanRel_end( TCV_ch)			4.
21		ltree_sendHoCMD			
22		[TSPC_PGSM OR TSPC_EGSM] 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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
23		[TSPC_DCS]			

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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
25		localtree_setArfcn (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)			
<b>Detailed Comments</b> : 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_TmSlitNotZero, TCV_ts:= TSPX_TmSlitNotZero, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSlitNotZero)			
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	body	+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)	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvA))		1.
9		+localtree_setTchArfcn			
10		+Est_MO_Call_init( C_CHSDCCH8_NonFH, MobiAllc_omit, MobiAllc_omit, TimingAdv( 30), TSPX_TscA, C_one, C_one)			
11		+localtree_setTchArfcn			
12		(TCV_nc := '010'B)			
13		+Check_Cells_Present (TCV_nc, TCV_sacch8)			
14		+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			
19		+RR_hocomp1( 1500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.m sg.mt)			3.
21		+SendSeqNo_c hk			
22		+ChanRel_end ( TCV_ch)			4.
23		ltree_sendHoCMD [TSPC_PGSM OR TSPC_EGSM]			

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, MoblAlc_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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
27		localtree_setTchArfcn (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)			
<b>Detailed Comments</b> : 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_TmSlitNotZero, TCV_ts:= TSPX_TmSlitNotZero, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSlitNotZero)			
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_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 coincide nt at the antenna connect or.
8		+local_set_arfcn			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9	body	+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)			1.
10		+Est_MO_Call_init( C_CHTCHF_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv( 30), TSPX_TscA, C_one, C_one)			
11		+localtree_varinit			
12		(TCV_sacchTch2 := C_SACCHF_A_1)			
13		(TCV_nc := '010'B)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
15		L!DL_DatRqHoCmd			
16		(TCV_chTch1 := TCV_ch)			2.
17		(TCV_ch:= TCV_chTch)			
18		(TCV_Null := OM_SendNextOnHO (TCV_ch, TCV_Cntref))			
19		L!DL_DatRqPhyinf o			
20		+RR_hocomp1( 750, TCV_chTch1)			
21		L?DL_DatInSet up (TCV_Mt1 := DL_DatInSetup. msg.mt)			
22		+SendSeqNo_ chk			
23		+ChanRel_e nd( TCV_ch)			
24		localtree_varinit (TCV_Tchtype := INT_TO_BIT(( 2 + BIT_TO_INT( TSPX_TCHHSubDef)), 5))			
			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))		
			PhyInfo_01(TCV_ch, TimingAdv(20))		
			SetupRcv( SetupInd_01)		3.
					4.

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)			
<b>Detailed Comments :</b> 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_MOBScSvcl, TSPX_MOChRateI)			
3		(TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_ts:= TSPX_TmSlitNotZero, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSlitNotZero)			
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	body	+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)	PhyInfo_01(TCV_ch, TimingAdv(20))		The timeslots of Cells A and B are not coincide nt at the antenna connect or.
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, MobiAllic_20_A0, MobiAllic_20_A0, TimingAdv( 30), TSPX_TscG, 17, 17)			
11		(TCV_nc := '010'B)			
12		(TCV_sacchTch2 := OC_SubchOfSacchh( TSPX_TCHHSubDef, C_CellA, 1))			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		+local_HoCMD			
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch := TCV_chTch)			
17		(TCV_Null := OM_SendNextOnHO(T CV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo			
19		+RR_hocomp1( 500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.m sg.mt)			
21		+SendSeqNo_c hk			
22		+ChanRel_end ( TCV_ch)			
23	post	local_HoCMD [TSPC_PGSM OR TSPC_EGSM]			

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.
<b>Detailed Comments :</b> 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, 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 coincide nt at the antenna connect or.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8	body	+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)	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvC))		1.
9		+Est_MO_Call_init( C_CHTCHF_FH, MobilAlc_20_A2, MobilAlc_20_A2, TimingAdv( 30), TSPX_TscE, 1, 1)			
10		(TCV_nc :='010'B)			
11		(TCV_sacchTch2 := C_SACCHF_A_1)			
12		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
13		+ltree_hoCMD			
14		(TCV_chTch1 := TCV_ch)			
15		(TCV_ch := TCV_chTch)			
16		(TCV_Null := OM_SendNextOnHO(TC V_ch, TCV_Cntref))			
17		L!DL_DatRqPhyinfo			
18		+RR_hocomp1( 500, TCV_chTch1)			
19		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.ms g.mt)	SetupRcv( SetupInd_01)		3.
20		+SendSeqNo_chk			4.
21	post	+ChanRel_end( TCV_ch)			
22		ltree_hoCMD			
23		[TSPC_PGSM OR TSPC_EGSM] 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, MobilAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
24		[TSPC_DCS]			

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, MoblAlc_22, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
<b>Detailed Comments</b> : 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_TmSlitNotZero, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10)			
5		(TCV_ia_ts := TSPX_TmSlitNotZero)			
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 coincide nt at the antenna connect or.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8	body	+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)			1.
9		+Est_MO_Call_init( C_CHSDCCH8_FH, MoblAlIc_281, MoblAlIc_281d, TimingAdv( 30), TSPX_TscA, 3, 3)			
10		+local_varinit			
11		(TCV_nc := '010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		L!DL_DatRqHoCmd			
15		(TCV_chTch1 := TCV_ch)			2.
16		(TCV_ch := TCV_chTch)			
17		(TCV_Null := OM_SendNextOnHO(T CV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo			
19		+RR_hocomp1 (500, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.m sg.mt)			
21		+SendSeqNo_c hk			
22		+ChanRel_end ( TCV_ch)			
23	post	local_varinit			
24		[TSPC_PGSM OR TSPC_EGSM]			
25		(TCV_chdescr_arfcn := C_BCCHcarrierB_ho, TCV_tch_arfcn:= TSPX_TCHcarrierB_ho)			3.
26		[TSPC_DCS]			
27		(TCV_chdescr_arfcn := C_BCCHcarrierB_hod, TCV_tch_arfcn:= TSPX_TCHcarrierB_hod)			4.
<b>Detailed Comments</b> : 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_HoRefl, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, 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 coincide nt at the antenna connect or.
8		+local_setTimSlt			

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Test Case Dynamic Behaviour							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
9	body	+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)			1.		
10		+local_setTchArfcn					
11		+Est_MO_Call_init( C_CHSDCCH8_NonFH, MoblAllc_omit, MoblAllc_omit, TimingAdv( 30), TSPX_TscA, C_one, C_one)					
12		(TCV_nc := '010'B)					
13		(TCV_sacchTch2 := TCV_sacch8)					
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)					
15		+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				PhylInfo_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)	
24						ltree_HoCMD [TSPC_PGSM OR TSPC_EGSM]	

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)				
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, 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 coincide nt at the antenna connect or.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8	body	+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)	PhyInfo_01(TCV_ch, TimingAdv(TSPX_TimadvB))		1.
9		+localtree_TchArfcn			
10		+Est_MO_Call_init( C_CHSDCCH8_NonFH, MobiAllc_omit, MobiAllc_omit, TimingAdv( 30), TSPX_TscB, C_one, C_one)			
11		(TCV_nc := '010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		+ltree_sendHoCMD			
15		(TCV_chTch1 := TCV_ch)			
16		(TCV_ch:= OC_SubchOfFacchh( TSPX_TCHHSubDef, C_CellB, 1))			
17		(TCV_Null := OM_SendNextOnHO(T CV_ch, TCV_Cntref))			
18		L!DL_DatRqPhyinfo			
19		+RR_hocomp1( 750, TCV_chTch1)			
20		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.m sg.mt)			3.
21		+SendSeqNo_c hk			
22	post	+ChanRel( TCV_ch)			4.
23		ltree_sendHoCMD (TCV_Tchtype := INT_TO_BIT(( 2 + BIT_TO_INT( TSPX_TCHHSubDef)), 5))			
24		[TSPC_PGSM OR TSPC_EGSM]			

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)			
<b>Detailed Comments</b> : 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_TmSlitNotZero1, TCV_ts:= TSPX_TmSlitNotZero, TCV_Horf:= TSPX_HoRefA, TCV_Pwrlvl_ho:= INT_TO_BIT( TSPX_PwrlvlD, 5))			
3		+BasicServiceMT( TSPX_MTBScSvcl, 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_CKSNDf, 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	body	+Est_MT_Call_FH( TimingAdv( TSPX_y), C_Full, TCV_maio, TSPX_HSN, TSPX_RANDDef, TCV_asscmd_ts, TSPX_TscDef, TSPX_TCHHSubDef)			1.          Prime the lower emulator		
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 ))					
15		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]					

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)			
<b>Detailed Comments</b> : 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_TmSlitNotZero1, TCV_ts:= TSPX_TmSlitNotZero, TCV_Horf:= TSPX_HoRefB, TCV_Pwrlvl_ho:= INT_TO_BIT( TSPX_PwrlvlC, 5))			
3		+BasicServiceMT( TSPX_MTBScSvcl, 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_CKSNDf, 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	body	+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)			1.			
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)						
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 ))						
15		LIDL_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 Handov er Comman d
17		(TCV_ch:= OC_SubchOfFacchh( TSPX_TCHHSubDef, C_CellB, 1), TCV_sacch := OC_SubchOfSacchh(T SPX_TCHHSubDef, C_CellB, 1))						



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	post	+RR_hocomp3(900,TCV_chTch)			3.
19		+Timadv_Pwrlvl_chk( TSPX_k, TSPX_y, TCV_Pwrlvl_ho)			
20		+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)			
<b>Detailed Comments</b> : 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_TmSlitNotZero, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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 propaga tion delay. The frame numbers of the two cells is different by 100.
6		(TCV_ia_ts:= TSPX_TmSlitNotZero)			
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, MobiAllc_282, MobiAllc_282, TimingAdv( TSPX_y), TSPX_TscC, 16, 16)			
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 ))			
					1.
					Prime the lower emulator

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15	body	+ltree_hoCMD			Retrieve the last frame number of the Handover Command and increment by 100 frames for the offset of Cell B
16		(TCV_Fn1 := OM_GetTxFn (TCV_ch), TCV_Fn1 := OC_FnInc (TCV_Fn1, 100))			
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)			
20		L?DL_DatInSetup (TCV_Mt1 :=DL_DatInSetup. msg.mt)	SetupRcv( SetupInd_01)		
21		+SendSeqNo_chk			
22		+ChanRel_end ( TCV_ch)			
23		ltree_hoCMD (TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubDef)), 5))			
24		[TSPC_PGSM OR TSPC_EGSM]			
25	post	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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		2.
26		[TSPC_DCS]			

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.
<b>Detailed Comments :</b> 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_CKSNDDef, 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	body	(TCV_ch1 := OC_SubchOfSdcch4( TSPX_SDCCH4SubDef, C_CellB), TCV_Null := OM_CphMd( TCV_ch1, CphMod_01, TCV_CphKey))			put the handove r target channel in cipherin g mode
7		(TCV_ia_ts:= TSPX_TmSltNotZero)			1.
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, MobiAllic_20_A3, MobiAllic_20_A3d, TimingAdv(TSPX_y), TSPX_TscF, 15, 15)			
11		(TCV_nc := '010'B)			
12		(TCV_sacchTch2 := TCV_sacch8)			
13		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			
14		+local_set_arfcn			Prime the lower emulator
15		(TCV_Null := OM_NextTxFn (TCV_ch, C_I ))			
16		L!DL_DatRqHoCmd ( DL_DatRqHoCmd.msg.s trt := 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.

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	post	(TCV_Fn1 := OM_GetTxFn(TCV_ch), TCV_Fn1 := OC_FnInc(TCV_Fn1, 100))	SetupRcv( SetupInd_01)		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)			4.
22		+SendSeqNo_chk			5.
23		+ChanRel_end( TCV_ch)			
24		local_set_DCS_Slot			
25		[TSPC_PGSM OR TSPC_EGSM]			
26		[TSPC_DCS] (TCV_ia_ts := C_S0)			
27		local_set_arfcn (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)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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 propaga tion 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	body	(TCV_ia_ts:= TSPX_TmSlitNotZero)			1.   

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25		ltree_hoCMD			
26		[TSPC_PGSM OR TSPC_EGSM] 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, MoblAlc_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, MoblAlc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
29		local_set_arfcn			
30		[TSPC_PGSM OR TSPC_EGSM] (TCV_tch_arfcn := C_arfcnA)			
31		[TSPC_DCS]			
32		(TCV_tch_arfcn := C_arfcnAd_4)			
<b>Detailed Comments</b> : 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_TmSlitNotZero, 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_CKSNDf, 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 propaga tion 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
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)			
<b>Detailed Comments</b> : 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCCConfigTCH( 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	body	+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubC, C_MaxPwrLvlG, C_MaxPwrLvlD, TSPX_CKSNDf, 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		+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))			5.	
19		+Check_hoaccTiming(TCV_HoaccPara, '0000000'B)				
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		LIMDL_RelRq			MDLRelReq(TCV_chTch)	Release the original channel
24	L_022 9	[TCV_L1Head.ta = '0000001'B]	(P)	6.		
25	L_023 0	+Check_Time(650)				
26		+PostMainLinkRel( TCV_chTch1)				
27		[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_023 1	[TCV_Hrf <> TSPX_HoRefD]	(F)			
32		(TCV_Cnt := TCV_Cnt + 1)				



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33	L_023 2	[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		LIDL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, 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		LIDL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, 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))		
<b>Detailed Comments</b> : 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_CKSNDf, 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_UdatRqImm	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			
16		localtree1 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_CKSNDf, 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_023 9	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_024 0	[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_024 1	[TCV_L1Head.ta = '0001001'B]		(P)	
32		+Check_Time(650)			

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_024 4	[TCV_Hrf <> TSPX_HoRefF]		(F)	
42		(TCV_Cnt := TCV_Cnt + 1)			
43	L_024 5	[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_TmSlitC, 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]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49		L!DL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, TSPX_TscC, C_NCC, C_BCC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefF, TCV_PwrIvl_ho, Synchi( C_report_otd, C_pre_synchronised), ChMod_omit, RelTmdDif_omit, TimingAdv_iei( 9), CphMod_omit))		
<b>Detailed Comments</b> : 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_CKSNDf, 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_CKSNDf, 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			
17		localtree1 (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_024 8	[(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_024 9	[C_Yes]		(F)	
26		+PostMainLinkRel(TCV_chTch1)			
27		localtree(ch : LOGICCH) (TCV_Cnt := 0, TCV_L1Head := OM_GetL1Hd(TCV_sacchTch1)) REPEAT localtree2(ch) UNTIL [TCV_Cnt = 4] (TCV_HoaccPara := OM_GetHoaccPara(ch)) +Check_hoaccTiming(TCV_HoaccPara, '0000000'B) +Check_hoaccPwr(TCV_HoaccPara, TCV_Pwrlvl_ho)			
28					
29					
30					
31					
32		localtree2(ch : LOGICCH) L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)	HndOvAccRcv( ch, HandOverAcc_01)		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33	L_025 1	[TCV_Hrf <> TSPX_HoRefH]		(F)	
34		(TCV_Cnt := TCV_Cnt + 1)			
35	L_025 2	[TCV_Hrf = TSPX_HoRefH]		(P)	
36		(TCV_Cnt := TCV_Cnt + 1)			
37		local_HoCMD			
38		(TCV_Tchtype := '00001'B)			
39		[TSPC_PGSM OR TSPC_EGSM]			
		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))		
<b>Detailed Comments :</b> 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 diffrencece = 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
5		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitC, 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
33		L!DL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, 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_TmSlitC, 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))		
<b>Detailed Comments :</b> 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_CKSNDDef, 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	body	+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubC, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDDef, TSPX_RANDDef, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)	DLEstInd( TCV_chTch)		3.
10		(TCV_L1Head0 := OM_GetL1Hd(TCV_sacchTch))			
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		+gsmOrDcs			4.
16		+localtree( TCV_chTch1)			
17		+ltree_continue			
18		ltree_continue			
19		L?DL_EstIn			
20		(TCV_L1Head := OM_GetL1Hd( TCV_sacchTch))			
21		(TCV_Fn := OM_ReturnFn (TCV_chTch))			
22		L?DL_DatInHofl (TCV_Fn1 := DL_DatInHofl.fn)			5.
23		+Check_Time(3000)			
24	L_026 0	[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]		(P)	6.
25	L_026 1	+PostMainLinkRel( TCV_chTch)		(F)	
26		[TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]			pwr lvl = 8
27		+PostMainLinkRel( TCV_chTch)			
28		localtree(ch : LOGICCH)			
29		(TCV_Cnt := 0)			
30		REPEAT localtree1(ch) UNTIL [TCV_Cnt = 3]			
31		(TCV_HoaccPara := OM_GetHoaccPara(ch))			
32		+Check_hoaccPwr (TCV_HoaccPara, TCV_Pwrlvl_ho)			
33		localtree1(ch : LOGICCH)			
34		L?DL_RacInHoacc (TCV_Hrf := DL_RacInHoacc.msg.horf)			
35		[TCV_Hrf <> TSPX_HoRefC]		(F)	
36	L_026 3	(TCV_Cnt := TCV_Cnt + 1)			
37	L_026 4	[TCV_Hrf = TSPX_HoRefC]		(P)	
		(TCV_Cnt := TCV_Cnt + 1)			
		gsmOrDcs			
		(TCV_Tchtype := '00001'B)			
		[TSPC_PGSM OR TSPC_EGSM]			

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))		
<b>Detailed Comments :</b> 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					
<b>Test Case Name</b> : TC_26_6_5_9 <b>Group</b> : RR/ <b>Purpose</b> : To verify the function of timer T3124 and the contents in the message HANDOVER FAILURE <b>Configuration</b> : <b>Default</b> : OtherEventsFail_01 <b>Comments</b> :					
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_CKSNDf, 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	body	+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubDef, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, TSPX_CKSNDf, TSPX_RANDDef, TSPX_TmSlTDef, TSPX_TscDef, TSPX_TCHHSubDef, TCV_ChRate)			3.															
11		(TCV_L1Head0 := OM_GetL1Hd( TCV_sacchTch))																		
12		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																		
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)															HndOvFIRcv( TCV_chTch, HandOvFail_02)	5.		
23		+Check_Time(3000)																		
24		L_026 7																[TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]	(P)	6.
25		+PostMainLinkRel( TCV_chTch)																		
26		L_026 8																	[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_027 0								[TCV_Hrf <> TSPX_HoRefC]		(F)									
34	(TCV_Cnt := TCV_Cnt + 1)																			
35	L_027 1										[TCV_Hrf = TSPX_HoRefC]	(P)								
36	(TCV_Cnt := TCV_Cnt + 1)																			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37		gsmOrDcs			
38		(TCV_Tchtype := '00001'B)			
39		[TSPC_PGSM OR TSPC_EGSM]			
		L!DL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, 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_TmSlitC, 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))		
<b>Detailed Comments :</b> 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]			
13		test1 +sdccch8( Freq_rg18, Freq_rd18, TSPX_SDCCH8SubA,TSPX_TmSlitA, TSPX_TscA, Ca2_g01, Ca3_g01, Ca2_d01, Ca3_d01, Ma1_g01, Ma2_g01, Ma3_g01, 6, 7, 91, ChDescrp_sdcch8_fh( TSPX_TmSlitA, TSPX_TscA, TSPX_SDCCH8SubA, '001001'B, '000000'B))			1. R=1, K=1
14		test2 +sdccch8( Freq_rg19, Freq_rd19, TSPX_SDCCH8SubB,TSPX_TmSlitB, TSPX_TscB, Ca2_g02, Ca3_g02, Ca2_d02, Ca3_d02, Ma1_g02, Ma2_g02, Ma3_g02, 2, 1, 42000, ChDescrp_sdcch8_fh( TSPX_TmSlitB, TSPX_TscB, TSPX_SDCCH8SubB, '000100'B, '000000'B))			R=1, K=2
15		test3 +sdccch8( Freq_rg20, Freq_rd20, TSPX_SDCCH8SubC,TSPX_TmSlitC, TSPX_TscC, Ca2_g03, Ca3_g03, Ca2_d03, Ca3_d03, Ma1_g03, Ma2_g03, Ma3_g03, 1, 3, 1000, ChDescrp_sdcch8_fh( TSPX_TmSlitC, TSPX_TscC, TSPX_SDCCH8SubC, '000010'B, '000000'B))			R=1, K=3
16		test4 +tchf( Freq_rg21, Freq_rd21, TSPX_TmSlitD, TSPX_TscD, Ca2_g04, Ca3_g04, Ca2_d04, Ca3_d04, Ma1_g04, Ma2_g04, Ma3_g04, 2, 3, 91, ChDescrp_tchf_fh( TSPX_TmSlitD, TSPX_TscD, '000110'B, '000000'B))			2. R=2, K=1
17		test5 +tchf( Freq_rg22, Freq_rd22, TSPX_TmSlitE, TSPX_TscE, Ca2_g05, Ca3_g05, Ca2_d05, Ca3_d05, Ma1_g05, Ma2_g05, Ma3_g05, 4, 2, 42000, ChDescrp_tchf_fh( TSPX_TmSlitE, 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
18		test6 +tchf( Freq_rg23, Freq_rd23, TSPX_TmSlitF, TSPX_TscF, Ca2_g06, Ca3_g06, Ca2_d06, Ca3_d06, Ma1_g06, Ma2_g06, Ma3_g06, 6, 4, 15000, ChDescrp_tchf_fh( TSPX_TmSlitF, TSPX_TscF, '001000'B, '000000'B))			R=2, K=3
19		test7 +tchh( Freq_rg24, Freq_rd24, TSPX_TCHHSubDef, TSPX_TmSlitG, TSPX_TscG, Ca2_g07, Ca3_g07, Ca2_d07, Ca3_d07, Ma1_g07, Ma2_g07, Ma3_g07, 7, 4, 91, ChDescrp_tchh_fh( TSPX_TmSlitG, TSPX_TscG, TSPX_TCHHSubDef, '000011'B, '000000'B))			3. R=3, K=1
20		test8 +tchh( Freq_rg25, Freq_rd25, TSPX_TCHHSubA, TSPX_TmSlitA, TSPX_TscA, Ca2_g08, Ca3_g08, Ca2_d08, Ca3_d08, Ma1_g08, Ma2_g08, Ma3_g08, 2, 5, 42000, ChDescrp_tchh_fh( TSPX_TmSlitA, TSPX_TscA, TSPX_TCHHSubA, '000111'B, '000000'B))			R=3, K=2
21		test9 +tchh( Freq_rg26, Freq_rd26, TSPX_TCHHSubDef, TSPX_TmSlitDef, TSPX_TscDef, Ca2_g09, Ca3_g09, Ca2_d09, Ca3_d09, Ma1_g09, Ma2_g09, Ma3_g09, 5, 3, 4000, ChDescrp_tchh_fh( TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef, '000001'B, '000000'B))			R=3, K=3
22		test( Ca2, Ca3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
23		+ltree_immass( Ma1, Chd)			
24		+Check( TCV_cchd1, Ma1, tm, Chd)			
25		+ltree_freqRedef( Ca2, Ma2, Maio2, tm , Chd)			
26		+ltree_freqRedef( Ca3, Ma3, Maio3, tm, Chd)			
27		+ltree_chkAndrelease( Ca3, Ma3, tm, Chd)			
28		ltree_freqRedef( ca: CCHD; ma: MA; maio, tm : INTEGER; chd: CHD)			
29		[NOT TCV_Res]			
30		[TCV_Res]			
31		+ltree_fredef( ca, ma, maio, tm, chd)			
32		+Check( ca, ma, tm, chd)			
33		ltree_chkAndrelease( ca: CCHD; ma: MA; tm : INTEGER; chd: CHD)			
34		[NOT TCV_Res]			
35		(TCV_Null := OM_StopCell( C_CellA))			
36		[TCV_Res]			
		+PostMainLinkRel(TCV_chTch)			
		(TCV_Null := OM_StopCell( C_CellA))			
		Check( ca: CCHD; ma: MA; tm : INTEGER; chd: CHD)			
		(TCV_Res := OM_FHCHK( TCV_sacchTch, ca, ma, chd, tm, TCV_Fn))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37	L_027 4	[NOT TCV_Res]		(F)	
38		+PostMainLinkRel( TCV_chTch)			
39	L_027 5	[TCV_Res]		(P)	
40		ltree_fredef( cchd: CCHD; ma : MA; maio, tm : INTEGER; chd: CHD)  (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		LIDL_DatRqFrqre  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)	FrqRedfSnd( TCV_chTch, FreqRedef_01( TCV_chd1, ma, TCV_Strt, cchd))		
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)			
46		tchf( FqParag, FqParad : FRQPARA; Tmslt : SN; Tsc : TSC; Cag2, Cag3, Cad2, Cad3 : CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm : INTEGER; Chd: CHD)			
47		+ltree_idleupdated( FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)			
48		+FullRateCh_A_1_nociph( C_Immass, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
49		+test( TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)			
50		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)			
51		+ltree_idleupdated( FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)			
		+HalfRateCh_A_1_nociph( SubCh, C_Immass, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
		+test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52		ltree_immass( ma1 : MA; chd : CHD) 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_UdatRqImm	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
58		ltree_idleupdated( FqPg, FqPd : FRQPARA; Cag2, Cag3, Cad2, Cad3 : CCHD) (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_Imm, 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_CKSNDf, 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.
<b>Detailed Comments :</b> 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_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_CKSNDDef, 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_TmSlitDef, TSPX_TscDef, ChMod_speech, FreqTCH( C_arfcn_tchA), FreqTCH( C_arfcn_tchAd), TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		LIDL_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		LIDL_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_027 6	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_027 7	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_01( ChMod_sign, TCV_chd1))	(P)	
17		+localtree( ChMod_sign)			
18		localtree(chm : CHMOD) L!DL_DatRqChmmo	ChmmoReqSnd( TCV_chTch, ChmomoReq_01( ChMod_12k, TCV_chd1))		
19		[TSPC_96Data ]			
20	L_027 8	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_027 9	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_028 0	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_01( ChMod_3k, TCV_chd1))	(P)	
29		+localtree1			
30		[NOT TSPC_24DataF]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_028 1	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( ChMod_12k, TCV_chd1))	(P)	
32		+localtree1			
33		[NOT TSPC_96Data]			
34	L_028 2	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( chm, TCV_chd1))	(P)	
35		L!DL_DatRqChmмо	ChmмоReqSnd( TCV_chTch, ChmomoReq_01( ChMod_6k, TCV_chd1))		
36		[TSPC_48DataF]			
37		+localtree2			
38		[NOT TSPC_48DataF]			
39	L_028 3	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( chm, TCV_chd1))	(P)	
40		L!DL_DatRqChmмо	ChmмоReqSnd( TCV_chTch, ChmomoReq_01( ChMod_3k, TCV_chd1))		
41		[TSPC_24DataF]			
42	L_028 4	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( ChMod_3k, TCV_chd1))	(P)	
43		+localtree1			
44		[NOT TSPC_24DataF]			
45	L_028 5	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( chm, TCV_chd1))	(P)	
46		+localtree1			
47		localtree1 L!DL_DatRqChmмо	ChmмоReqSnd( TCV_chTch, ChmomoReq_01( ChMod_sign, TCV_chd1))		
48	L_028 6	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( ChMod_sign, TCV_chd1))	(P)	
49		+PostMainLinkRel(TCV_chTch) localtree2			
50	L_028 7	L?DL_DatInChmмоAck	ChmмоAckRcv( TCV_chTch, ChmomoAck_01( ChMod_6k, TCV_chd1))	(P)	



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_028 8	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_01( ChMod_3k, TCV_chd1))	(P)	
54		+localtree1			
55		[NOT TSPC_24DataF]			
56	L_028 9	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_TmSlitDef, TSPX_TscDef, C_arfcn_tchA))			
60		[TSPC_DCS]			
61		(TCV_chd1 := ChDescrp_nfh( '00001'B, TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchAd))			
<b>Detailed Comments</b> : 1. Default system informations 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_CKSNDDef, 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		LIDL_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		LIDL_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_029 0	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_speech, TCV_chd1))	(P)	
13		[TSPC_HalfRateSpeech ]			
14	L_029 1	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_speech, TCV_chd1))	(P)	
15		+localtree( ChMod_speech)			
16		[NOT TSPC_HalfRateSpeech ]			
17	L_029 2	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_sign, TCV_chd1))	(P)	
18		+localtree( ChMod_sign)			
19		localtree(chm : CHMOD) L!DL_DatRqChmmo	ChmmoReqSnd( TCV_chTch, ChmomoReq_02( ChMod_6k, TCV_chd1))		
20		[TSPC_48DataH]			
21		+localtree2			
22		[NOT TSPC_48DataH]			
23	L_029 3	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_029 4	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_3k, TCV_chd1))	(P)	
27		+localtree1			
28		[NOT TSPC_24DataH]			
29	L_029 5	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( chm, TCV_chd1))	(P)	
30		+localtree1 localtree1			

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_029 6	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_sign, TCV_chd1))	(P)	
33		+PostMainLinkRel(TCV_chTch)			
34	L_029 7	localtree2 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_029 8	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_3k, TCV_chd1))	(P)	
38		+localtree1			
39		[NOT TSPC_24DataH]			
40	L_029 9	L?DL_DatInChmmoAck	ChmmoAckRcv( TCV_chTch, ChmomoAck_02( ChMod_6k, TCV_chd1))	(P)	
41		+localtree1			
42		gsmOrDcs			
43		[TSPC_PGSM OR TSPC_EGSM] (TCV_chd1 := ChDescrp_tchh_nfh( TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchA))			
44		[TSPC_DCS]			
45		(TCV_chd1 := ChDescrp_tchh_nfh( TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchAd))			
<b>Detailed Comments</b> : 1. Default system informations 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	body	START T_guard(300)	ChReq( ChRequest_04)		2.  

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
21		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		Restore Normal default
22		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_01)		
23		ACTIVATE(OtherEventsFail)			
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.al gid := TCV_CphAlg)	CphCmd( TCV_ch, CphModeCmd_01)		
28	L_030 0	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_030 1	L?DL_DatInAuthRes	AuthRes( AuthResponse)	(P)	
32		+PostMainLinkRel( TCV_ch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)	ChReq( ChRequest_04)		To match ChReq retrans.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
6		ACTIVATE( OtherEventsFail_02)			
7		LIDL_UdatRqImmass			
8		L?DL_EstInCmsRq			
9		ACTIVATE( OtherEventsFail)			
10		LIDL_DatRqAuthRq			
11		L?DL_DatInAuthRes			
12		LIDL_DatRqCphmCmd			
13		L?DL_DatInCphmCom			
					Restore Normal default
					2.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14	L_030 2	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					
<b>Test Case Name</b> : TC_26_6_8_3 <b>Group</b> : RR/ <b>Purpose</b> : To verify that the MS uses the stored cipher key when it receives a CIPHERING MODE COMMAND without a preceding authentication procedure. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)	ChReq( ChRequest_04)		To match ChReq retrans.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
6		ACTIVATE(OtherEventsFail_02)			
7		LIDL_UdatRqImmass			
8		L?DL_EstInCmsRq			
9		ACTIVATE(OtherEventsFail)			
10		(TCV_CphMd.algid := TSPX_CphAlgA)			
11		(TCV_Null := OM_CphMdChg( TCV_ch, TCV_CphMd, TCV_CphKey))			
12		LIDL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cph ms.algid := TSPX_CphAlgA)			
13	L_0303	L?DL_DatInCphmCom	CphCmd( TCV_ch, CphModeCmd_01)  CphCom( CphModeCmp_01)	(P)	3.

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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 )			
<b>Detailed Comments</b> : 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_ImmAs, 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_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			
8		ltree_body			
8		LIDL_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			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	L_030 6	[(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?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_Ass Cmd)			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.

Test Case Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
43	L_030 8	+handoverAcc(TCV_ch1)		(P)	Release the original channel	
44		L?DL_EstIn	DLEstInd( TCV_ch1)			
45		L?DL_DatInHoCom	HndOvCmpRcv( TCV_ch1, HandOverCmp_01)			
46		L!MDL_RelRq	MDLRelReq(TCV_ch)			
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)			(P)
53	L?DL_DatInHoCom	HndOvCmpRcv( TCV_ch, HandOverCmp_01)				
54	L!MDL_RelRq	MDLRelReq(TCV_ch1)				
55	localtree3 (TCV_Null := OM_CphMd( TCV_ch1, CphMod_02, TCV_CphKey))		7.			
56	+ltree_Asgn2					
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))		8.			
61	+Check_Time(500)					
62	L!DL_DatRqAuthRq	AuthReq(TCV_ch1, AuthRequest( TSPX_CKSNC, TSPX_RANDC))				
63	L?DL_DatInAuthRes	AuthRes( AuthResponse)				
64	(TCV_Null := OM_CphMd( TCV_ch, CphMod_04( TSPX_CphAlgD), TCV_CphKey))		9.			
65	+ltree_HndOv3					
66	+handoverAcc(TCV_ch)					
67	L?DL_EstIn	DLEstInd( TCV_ch)				
68	L_031 0	L?DL_DatInHoCom	HndOvCmpRcv(TCV_ch, HandOverCmp_01)	(P)		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
69	L_031 1	(TCV_Null := OM_FreeResource(TCV_ch1 ))		(P)	10.
70		+ltree_HndOv0			
71		L?DL_EstIn	DLEstInd( TCV_ch)		
72		L?DL_DatInHofl	HndOvFIRcv( TCV_ch, HandOvFail_01)		
73		L!DL_DatRqIdRq	IDReq(TCV_ch, IDRequest_01('0010'B))		
74		L?DL_DatInIdRes	IDRes(IDResponse_01)		
75		+ltree_Asgn2			11.
76		+AssCh_failur e(TCV_ch,TCV _AssCmd,TRU E)			
77		localtree4 +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_031 2	L?DL_EstIn	DLEstInd( TCV_ch)	(P)	Release the original channel
85		L?DL_DatInHoCom	HndOvCmpRcv( TCV_ch, HandOverCmp_01)		
86		L!MDL_RelRq	MDLRelReq(TCV_ch1)		
87		+PostMainLinkRel(TCV_ch)			
88		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			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
92		LIDL_UdatRqlmmass	ImmAss( TCV_agch, ImmAsgn_sdcch8( TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TSPX_SDCCH8SubA, TCV_tch_arfcn, TimingAdv( 30)))		
93		ltree_Asgn1 (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)))			
95		ltree_Asgn2 (TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubB)), 5))			
96		(TCV_AssCmd := AsgnCmd_nfh( TCV_Tchtype, TSPX_TmSlb, TCV_tsc, 9, TCV_tch_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_02iei))			
97		ltree_Asgn3 (TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubB)), 5))			
98		(TCV_AssCmd := AsgnCmd_nfh( TCV_Tchtype, TSPX_TmSlb, TCV_tsc, 9, TCV_tch_arfcn, CellChDes_Omit, ChMod_omit, StartingTm_omit, CphMod_04iei(TSPX_CphAlgE)))			
99		ltree_HndOv0 (TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubB)), 5))			
100		[TSPC_PGSM OR TSPC_EGSM]			
101		LIDL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlb, 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]			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
103		L!DL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitB, 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))		
104		ltree_HndOv1 (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_TmSlitB, 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_TmSlitB, 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)))		
109		ltree_HndOv2 (TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubA)), 5))			
110		[TSPC_PGSM OR TSPC_EGSM]			

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)))		
114		ltree_HndOv3 (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]				

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)))		
119		ltree_HndOv4 (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)))		
<b>Detailed Comments</b> : 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_Immash, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		LIDL_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		LIDL_UdatRqImmash	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	LIDL_DatRqCphmCmd	CphCmd( TCV_ch, CphModeCmd_02)		
10	L_031 3	L?DL_DatInCphmCom	CphCom( CphModeCmp_02)	(P)	
11		LIDL_DatRqCphmCmd	CphCmd( TCV_ch, CphModeCmd_03)		
12	L_031 4	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	body	START T_guard(300)			1.
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubC, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, 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_AddPwrAmp())			
6		+InitCall(TCV_Service)			
7		+subtree1			
8		(TCV_Null := OO_RemvPwrAmp())			
9		+subtree2			
10		subtree1 L?DL_RacInChRq (TCV_Rr := DL_RacInChRq, msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
11		ACTIVATE(OtherEventsFail_02)	ChReq( ChRequest_04)		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_031 5	L?DL_EstInCmsRq	CMSSerReq( CMSServiceReq_02)	(P)	2.  Restore Normal default
14		ACTIVATE(OtherEventsFail)			
15		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_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?DL_UdatInCImChn	ClassChgURcv( ClassChange_01)	(P)	5.
25		(TCV_Null := OO_AddPwrAmp())			
26	L_031 7	L?DL_UdatInCImChn	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)			
35		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		To match ChReq retrans.

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)			
<b>Detailed Comments</b> : 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_CKSNDf, 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_DatRqCImEnq START T_dly1( 300)	ClassMkEnq_01( TCV_ch)		
10	L_031 9	L?DL_DatInCImChn 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_032 0	?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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)  PagingRes( PagingRes_01)  ChRel( TCV_ch, ChRelease_01) DLRelInd_01	(F)	To match ChReq retrans.   Restore Normal default
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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		+subtree1			
6		+subtree2			
7		subtree1			
8		LIDL_UdatRqPg1Rq			
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
10		ACTIVATE(OtherEventsFail_02)			
11		+local_immass			
12		L?DL_EstInPgRes			
13		ACTIVATE(OtherEventsFail)			
14		LIDL_DatRqChRel			
15		L?DL_RelIn			
16		START T_dly(3000) L?OTHERWISE			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	L_032 2	?TIMEOUT T_dly		(P)	To match ChReq retrans.
		subtree2			
18		START T_dly(12000)			
19		?TIMEOUT T_dly			
20		LIDL_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)			
23		+local_immass			Restore Normal default
24	L_032 3	L?DL_EstInPgRes	PagingRes( PagingRes_01)	(P)	
25		ACTIVATE(OtherEventsFail)			
26		+PostMainLinkRel(TCV_ch)			
		local_immass			
27		LIDL_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	body	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_CKSNDf, 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		+subtree1				
6		+subtree2				
		subtree1				
7		LIDL_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		LIDL_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_032 4	L?OTHERWISE		(F)		

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20	L_032 5	?TIMEOUT T_dly		(P)	Local end release
21		L!MDL_RelRq	MDLRelReq(TCV_ch)		
		subtree2			
22		START T_dly(12000)			
23		?TIMEOUT T_dly			
24	L_032 6	L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)	(P)	
25		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
26		+local_immass			
27		L?DL_EstInPgRes	PagingRes( PagingRes_01)		
28		+PostMainLinkRel(TCV_ch)			
29		local_immass L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubG, TSPX_TmSltDef, TSPX_TscDef, TimingAdv( 30), TCV_tch_arfcn))		
<b>Detailed Comments</b> : 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	body	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+gsmOrDcs			
4		+FullRateCh_A_1_nociph( C_Ass, TSPX_TmSlitDef, TSPX_TscDef, ChMod_speech, FreqTCH( C_arfcn_tchA), FreqTCH( C_arfcn_tchAd), TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		+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_032 7	L?OTHERWISE		(F)	
17	L_032 8	?TIMEOUT T_dly		(P)	
18		subtree2			
19		START T_dly(12000)			
20		?TIMEOUT T_dly			
21		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
22		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
23		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
24	L_032 9	L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_r13( TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv( 30)))	(P)	
25		L?DL_EstInPgRes	PagingRes( PagingRes_01)		
26		ACTIVATE(OtherEventsFail)			Restore Normal default
27		+PostMainLinkRel(TCV_chTch)			
28		gsmOrDcs			
29		[TSPC_PGSM OR TSPC_EGSM]			
30		(TCV_chd1 := ChDescrp_nfh( '00001'B, TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchA))			
		[TSPC_DCS]			
		(TCV_chd1 := ChDescrp_nfh( '00001'B, TSPX_TmSlitDef, 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	body	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_CKSNDf, 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_TmSlitC, TSPX_TscC, ChMod_speech, FreqTCH( C_arfcn_tchA), FreqTCH( C_arfcn_tchAd), TimingAdv( 30), C_BABR_0, C_cch_1Comb, C_BPM_3)			
5		+subtree1			
6		+Varinit_tch( C_arfcn_tchA, C_arfcn_tchAd)			
7		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSlitDef, 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			
9		subtree1			
10		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
11		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
12		L!DL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_r13( TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv( 30)))		
13		L?DL_EstInPgRes (TCV_Res := OM_NoUAforDISC(TCV_chTch))	PagingRes( PagingRes_01)		

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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_033 0	L?OTHERWISE		(F)	
22	L_033 1	?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_033 2	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_TmSlitC, TSPX_TscC, C_arfcn_tchA))			
33		[TSPC_DCS]			
34		(TCV_chd1 := ChDescrp_nfh( '00001'B, TSPX_TmSlitC, TSPX_TscC, C_arfcn_tchAd))			
		local_immass			
35		L!DL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_r02( TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSlitDef, 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.           To match ChReq retrans.  4.   Restore Normal default
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
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)			
4		+local_set_channel_for_ass			
5		+ltree_body			
6		ltree_body			
7		L!DL_UdatRqPg1Rq			
8		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
9		ACTIVATE( OtherEventsFail_02)			
10		L!DL_UdatRqImmass			
11		L?DL_EstInPgRes			
		ACTIVATE( OtherEventsFail)	PagingRes( PagingRes_01)		

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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)			
17		local_hoppingCHK (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_033 3	[TCV_Res ]		(P)	
19	L_033 4	[NOT TCV_Res]		(F)	
20		local_set_channel_for_ass (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)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		+Set_CellChDescr(C_CellA)			
<b>Detailed Comments</b> : 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 elapsed when the Mobile Station is ready to transmit.

**Configuration** :

**Default** : OtherEventsFail

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
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		LIDL_UdatRqPg1Rq			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		LIDL_UdatRqImmass			4.
9		L?DL_EstInPgRes			
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			
15		+PostMainLinkRel(TCV_ch Tch)			6.
16		local_continue (TCV_Res := OM_FHCHK( TCV_chTch, TCV_cchd1, MobilAlc_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_033 5	[TCV_Res ]		(P)	
18	L_033 6	[NOT TCV_Res]		(F)	
19		local_set_channelForAss (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)			
<b>Detailed Comments :</b> 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, failing 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_Immase, 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			1.
3		+local_channel_setup			2.
4	body	LIDL_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		LIDL_UdatRqImmase	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, MoblAllic_r11, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn( TCV_WorkingCh, TCV_Fn))			3.
12		LIDL_DatRqFrqre	FrqRedfSnd( TCV_WorkingCh, FreqRedef_01( TCV_chd1, MoblAllic_r11, TCV_Strt, CellChDes_Omit))		4.
13		(TCV_AssCmd := AsgnCmd_r16( TSPX_TmSltd, TSPX_TscE, OC_StartTime( TCV_Fn, 4000, 1)))			
14		+AssCh_failure( TCV_WorkingCh, TCV_AssCmd, TRUE)			
15		+ltree_check			6.
16		+PostMainLinkRel( TCV_WorkingCh)			
17		ltree_check (TCV_Res := OM_FHCHK( TCV_WorkingCh, TCV_cchd1, MoblAllic_r11, TCV_chd1, 5000, TCV_Fn))			
18	L_033 7	[TCV_Res ]		(P)	
19	L_033 8	[NOT TCV_Res]		(F)	
20		local_channel_setup (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.



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		(TCV_WorkingCh := TCV_ch)			
32		+Set_CellChDescr( C_CellA)			
<b>Detailed Comments :</b> <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH.</li> <li>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.</li> <li>3. To calculate the starting time for frequency redefinition.</li> <li>4. To send FREQUENCY REDIFINITION message.</li> <li>5. To calculate the starting time and send the ASSIGNMENT COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.</li> <li>6. To check whether the after time frequency hopping is correct at the RF burst level.</li> <li>7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.</li> <li>8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.</li> <li>9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.</li> </ol>					

## 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_channel_setup			2.
4		L!DL_UdatRqPg1Rq			
5		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			To match ChReq retrans.
6		ACTIVATE( OtherEventsFail_02)			
7		L!DL_UdatRqImmass			
8		L?DL_EstInPgRes			
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_TmSlitF, TSPX_TscF, INT_TO_BIT(TSPX_Maio11, 6), INT_TO_BIT(TSPX_Hsn10, 6)), TCV_Null := OM_FreqDef( TCV_Strt, MoblAllic_r15, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn( TCV_WorkingCh, TCV_Fn))			
12		LIDL_DatRqFrqre	FrqRedfSnd( TCV_WorkingCh, FreqRedef_01( TCV_chd1, MoblAllic_r15, TCV_Strt, CellChDes_Omit))		4.
13		(TCV_AssCmd := AsgnCmd_r17( TSPX_TmSlitF, 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_TmSlitF, 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_TmSlitF, 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_TmSlitF, 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)			
<b>Detailed Comments :</b> 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 redefinition. 4. To send FREQUENCY REDIFINITION message.					

### 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 redefinition.
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	body	START T_guard( 300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
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)			
4		+local_channel_setup			3.
5		LIDL_UdatRqPg1Rq			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
7		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
8		LIDL_UdatRqImmass			
9		L?DL_EstInPgRes			
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))	MsrRept( MsrReport_02)		4.
13		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)			
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_Chpt7, TSPX_TmSlitDef, TSPX_TscDef, INT_TO_BIT( TSPX_Maio15, 6), INT_TO_BIT( TSPX_Hsn15, 6)), TCV_Null := OM_FreqDef( TCV_Strt, MoblAllic_r18iei, TCV_chTch, TCV_chd1, TCV_cchd1, TCV_Fn),TCV_Null:=OM_SendNextOnHO(TCV _chTch,2))			
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			
21		L?DL_RacInHoacc			
22		L?DL_EstIn			
23		L?DL_DatInHoCom			
24		L!MDL_RelRq			
25		+ltree_Hoppingcheck			
26		+PostMainLinkRel( TCV_chTch)			
27		ltree_Hoppingcheck (TCV_Res := OM_FHCHK( TCV_chTch, TCV_cchd1, MoblAllic_r18iei, TCV_chd1, C_StrT_1000, TCV_Fn))			
28	L_033 9	[TCV_Res ]		(P)	
29	L_034 0	[NOT TCV_Res]		(F)	
30		local_sendHoCMD [TSPC_PGSM OR TSPC_EGSM]			

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_PwrlvIA, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r03, MoblAlIc_r18iei, MoblAlIc_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_PwrlvIA, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r03, MoblAlIc_r18iei, MoblAlIc_r20, CphMod_02iei))		
34		local_channel_setup (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)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
42		[(TCV_n >= 8) AND ( TCV_n <= 15)]			7.
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)			
44		+Set_CellChDescr( C_CellB)			
<b>Detailed Comments</b> : 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 transmit 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.           2.           3.           To match ChReq retrans.           Restore Normal default
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
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)			
4		+local_config_channel			
5		LIDL_UdatRqPg1Rq			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
7		ACTIVATE(OtherEventsFail_02)			
8		LIDL_UdatRqImmass			
9		+local_continue			
10		local_continue			
11		L?DL_EstInPgRes ACTIVATE(OtherEventsFail)			

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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)			
25		ltree_Hoppingcheck (TCV_Res := OM_FHCHK( TCV_chTch, TCV_cchd1, MobilAlc_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_103 9	[TCV_Res]		(P)	
27	L_104 0	[NOT TCV_Res]		(F)	
28		local_sendHoCMD [TSPC_PGSM OR TSPC_EGSM]			

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_TmSlitB, TSPX_TscB, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp8, TSPX_Maio18, TSPX_Maio19, TSPX_Hsn18, TSPX_Hsn19, TSPX_HoRefA, TSPX_PwrlvIB, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r04, MoblAllic_r22, MoblAllic_r23, CphMod_omit))		
30		[TSPC_DCS]			
31		L!DL_DatRqHoCmd	HndOvSnd( TCV_ch, HandOverCmd( C_NCC, C_BCC_1, TSPX_TmSlitB, TSPX_TscB, TCV_cchd1, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp8, TSPX_Maio18, TSPX_Maio19, TSPX_Hsn18, TSPX_Hsn19, TSPX_HoRefA, TSPX_PwrlvIB, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r04, MoblAllic_r22, MoblAllic_r23, CphMod_omit))		
32		local_config_channel (TCV_n := BIT_TO_INT( TSPX_Chtp8))			
33		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubC, C_Immass, TSPX_TmSlitDef, 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_TmSlitB, 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_TmSlitB, 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)]			

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)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) ChReq( ChRequest_17)		1.          3. 2.          To match ChReq retrans.          Restore Normal default
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_channel_setup			
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)			
5		LIDL_UdatRqPg1Rq			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
7		ACTIVATE( OtherEventsFail_02)			
8		LIDL_UdatRqImmass			
9		L?DL_EstInPgRes			
10		ACTIVATE( OtherEventsFail)			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
11		+localtree			
12		localtree (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, MobiAllc_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, MobiAllc_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	HndOvFIRcv( TCV_WorkingCh, HandOvFail_02)		
20		+local_HoppingCHK			7.
21		+PostMainLinkRel( TCV_WorkingCh)			
22		local_HoppingCHK (TCV_Res := OM_FHCHK( TCV_WorkingCh, TCV_cchd1, MobiAllc_r25, TCV_chd1, 5000, TCV_Fn))			
23	L_034 1	[TCV_Res ]		(P)	
24	L_034 2	[NOT TCV_Res]		(F)	
25		local_handoverCMD [TSPC_PGSM OR TSPC_EGSM]			

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_TmSlitD, TSPX_TscD, CellChDes_20_Bman, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp10, TSPX_Maio22, TSPX_Maio23, TSPX_Hsn22, TSPX_Hsn23, TSPX_HoRefA, TSPX_PwrlvIC, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r05, MoblAllic_r26, MoblAllic_r27, CphMod_omit))		
27		[TSPC_DCS]			
28		L!DL_DatRqHoCmd	HndOvSnd( TCV_WorkingCh, HandOverCmd( C_NCC, C_BCC_1, TSPX_TmSlitD, TSPX_TscD, CellChDes_201_Bd, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp10, TSPX_Maio22, TSPX_Maio23, TSPX_Hsn22, TSPX_Hsn23, TSPX_HoRefA, TSPX_PwrlvIC, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r05, MoblAllic_r26, MoblAllic_r27, CphMod_omit))		
29		local_channel_setup (TCV_n := BIT_TO_INT( TSPX_Chtp9))			
30		[TCV_n = 1]			
31		+FullRateCh_A_1_nociph( C_Immass, TSPX_TmSlitC, 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_TmSlitC, 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)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38		+Set_CellChDescr( C_CellA)			9.
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_TmSlitC, TSPX_TscC, ChMod_sign, Freq_rg14, Freq_rd14, TimingAdv( 30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			
42		(TCV_WorkingCh := TCV_ch)			
43		+Set_CellChDescr( C_CellA)			
44		(TCV_sacchTch2:=TCV_sacch8)			
<b>Detailed Comments :</b> <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH.</li> <li>2. To set a physical channel as BCCH, CCCH for Cell B.</li> <li>3. To setup a physical channel for immediate assignmemnt.</li> <li>4. To calculate the starting time for frequency redifinition.</li> <li>5. To send FREQUENCY REDIFINITION message.</li> <li>6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.</li> <li>7. To check whether the after time frequency hopping is correct at the RF burst level.</li> <li>8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.</li> <li>9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.</li> <li>10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.</li> </ol>					



## 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	body	START T_guard(300)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.           3. 2.           To match ChReq retrans.           Restore Normal default
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_channel_setup			
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)			
5		L!DL_UdatRqPg1Rq			
6		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
7		ACTIVATE( OtherEventsFail_02)			
8		L!DL_UdatRqImmass			
9		L?DL_EstInPgRes			
10		ACTIVATE(OtherEventsFail)			
11		+local_continue			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12		local_continue			
13		(TCV_nc := '010'B)			
14		+Check_Cells_Present (TCV_nc, TCV_sacchTch2)			4.
15		(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, MoblAllic_r29, TCV_WorkingCh, TCV_chd1, TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn( TCV_WorkingCh, TCV_Fn))			5.
16		L!DL_DatRqFrqre	FrqRedfSnd( TCV_WorkingCh, FreqRedef_01( TCV_chd1, MoblAllic_r29, TCV_Strt, CellChDes_Omit))		6.
17		(TCV_Strt := OC_StartTime( TCV_Fn, 5000, 1))			
18		+local_sendHoCMD			
19		L?DL_EstIn	DLEstInd( TCV_WorkingCh)		7.
20		L?DL_DatInHofl	HndOvFIRcv( TCV_WorkingCh, HandOvFail_02)		
21		+ltree_Hoppingcheck			
22		+PostMainLinkRel( TCV_WorkingCh)			
23	L_106 1	ltree_Hoppingcheck (TCV_Res := OM_FHCHK( TCV_WorkingCh, TCV_cchd1, MoblAllic_r29, TCV_chd1, 265, TCV_Fn))		(P)	
24	L_106 2	[TCV_Res]		(F)	
25		[NOT TCV_Res]			
		local_sendHoCMD			
		[TSPC_PGSM OR TSPC_EGSM]			

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_TmSlE, TSPX_TscE, CellChDes_20_B, TCV_Strt, C_BCCHcarrierB_ho, TSPX_Chtp12, TSPX_Maio26, TSPX_Maio27, TSPX_Hsn26, TSPX_Hsn27, TSPX_HoRefA, TSPX_PwrlvID, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r06, MoblAlc_r30iei, MoblAlc_r31iei, CphMod_omit))		
27		[TSPC_DCS]			
28		L!DL_DatRqHoCmd	HndOvSnd( TCV_WorkingCh, HandOverCmd( C_NCC, C_BCC_1, TSPX_TmSlE, TSPX_TscE, CellChDes_201_Bdiei, TCV_Strt, C_BCCHcarrierB_hod, TSPX_Chtp12, TSPX_Maio26, TSPX_Maio27, TSPX_Hsn26, TSPX_Hsn27, TSPX_HoRefA, TSPX_PwrlvID, Synchi( C_not_report_otd, C_non_synchronised), ChMod_r06, MoblAlc_r30iei, MoblAlc_r31iei, CphMod_omit))		
29		local_channel_setup			
30		(TCV_n := BIT_TO_INT( TSPX_Chtp11))			
31		[TCV_n = 1]			
32		+FullRateCh_A_1_nociph( C_Immass, TSPX_TmSlD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv( 30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			7.
33		(TCV_WorkingCh := TCV_chTch)			
34		+Set_CellChDescr( C_CellA)			
35		(TCV_sacchTch2:=C_SACCHF_A_1)			
35		[(TCV_n = 2) OR (TCV_n = 3)]			

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)			
<b>Detailed Comments :</b> <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH.</li> <li>2. To set a physical channel as BCCH, CCCH for Cell B.</li> <li>3. To setup a physical channel for immediate assignmemnt. Note: Although the test case is designed for TCH/F, TCH/H &amp; SDCCH8 the TSPX_Chtp11 should be assigned to an SDCCH8 subchannel because calculations of starting time T1 for TCH/F &amp; TCH/H have not yet been carried out. No simple values can be defined.</li> <li>4. To calculate the starting time for frequency redefinition.</li> <li>5. To send FREQUENCY REDIFINITION message.</li> <li>6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV_Fn. The assigned channel not activated in the tester.</li> <li>7. The HANDOVER FAILURE message received on the channel using the after time hopping parameters of the frequency redifinetion message.</li> <li>8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.</li> <li>9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.</li> <li>10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.</li> </ol>					

## 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	body	START T_guard(300)	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)  ChReq( ChRequest_17)		1.
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+local_channel_setup			2.
4		L!DL_UdatRqPg1Rq			
5		L?DL_RacInChRq( TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn1 := DL_RacInChRq.fn)			
6		ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
7		+local_continue			
8		local_continue  (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, MobilAlc_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_UdatRqImm			
			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)		Restore Normal default 5.
11		ACTIVATE( OtherEventsFail)			
12		+ltree_aftertime_hopping_check			
13		+PostMainLinkRel( TCV_WorkingCh)			
		ltree_aftertime_hopping_check			
14		(TCV_Res := OM_FHCHK( TCV_WorkingCh, TCV_cchd1, MoblAllic_r32, TCV_chd1, TSPX_Tm3, TCV_Fn))			
15	L_034 3	[TCV_Res ]		(P)	
16	L_034 4	[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)			
<b>Detailed Comments</b> : 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 frequency 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 elapsed 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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	LIDL_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			
11		local_continue (TCV_chd1 := ChDescrp_fh( TSPX_Chtp14, TSPX_TmSltG, TSPX_TscG, INT_TO_BIT(TSPX_Maio30, 6), INT_TO_BIT(TSPX_Hsn30, 6)))			3.
12		LIDL_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)			
17		ltree_hopping_check (TCV_Res := OM_FHCHK( TCV_WorkingCh, TCV_cchd1, MoblAllic_r33, TCV_chd1, 5, TCV_Fn))			
18	L_034 5	[TCV_Res ]		(P)	
19	L_034 6	[NOT TCV_Res]		(F)	
20		local_channel_setup (TCV_n := BIT_TO_INT( TSPX_Chtp14))			
21		[TCV_n = 1]			
22		+FullRateCh_A_1_nociph( C_Immass, TSPX_TmSlitG, 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_TmSlitG, 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_TmSlitG, 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)			
<b>Detailed Comments :</b> 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	body	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_MaxPwrLvIG, C_MaxPwrLvID, 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_cks, TimingAdv( 30))			
5		+Ciphering_on(TCV_ch)			
6		+ltree_body			
7		ltree_body			
8		+TmsiReallocation( MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2)			1)
9		+ChanRel( TCV_ch)			
10		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			no ciphering
11		+MM_PwrOrSimOff( C_SIMIn)			
12		START T_dly(10000)			
13		?TIMEOUT T_dly			
14		+MM_PwrOrSimOn( C_SIMIn)			
15		START T_dly(5000)			
		?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_cks,sn, TimingAdv( 30))			2)
20		+ChanRel( TCV_ch)			
21		+ltree_switchcell			
22		ltree_switchcell +Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_cks,sn, 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_cks,sn, TimingAdv( 30))			6)
29		+ChanRel_end( TCV_ch)			
<b>Detailed Comments</b> : 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+PreEstRRC_MM( MiTmsi_01, TCV_cks, TimingAdv( 30))			
4		(TCV_cks:= TSPX_CKSND)			
5	body	+Authentication( TCV_ch, TCV_cks, TSPX_RANDDef)			
6		+ChanRel( TCV_ch)			
7		+Wait(C_T_Wait1)			
8		+PreEstRRC_MM( MiTmsi_01, TCV_cks, 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	body	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_MaxPwrLvIG, C_MaxPwrLvID, 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		+PreEstRRC_MM( MiTmsi_01, TCV_cksn, TimingAdv( 30))			
6		+Authentication( TCV_ch, TCV_cksn, TSPX_RANDDef)			
7		LIDL_DatRqAuthRej			
8		+ChanRel( TCV_ch)			
			AuthRejSnd( TCV_ch, AuthReject_01)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9	post	+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_cmsservices( 3000)			3)
14		+MM_check_ecall1( TimingAdv( 30), Milmei_01)			
15		+ltree_switchcelltoA			
16		+NoReaction( 30000)			5)
17		+ltree_continue1			
		ltree_continue1			
18		+NoReaction( 420000)			6)
19		+lmsiDetachNoReaction( 3000, C_SIMneedRmv)			7)
20		+MM_PwrOrSimOn (C_SIMneedRmv)			
21		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cksno, 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)
<b>Detailed Comments :</b> 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+PreEstRRC_MM( MiTmsi_01, TCV_cks, TimingAdv( 30))			
4		+IdentityRequest( C_IMSI, MiTmsi_01)			
5		+IdentityRequest( C_TMSI, MiTmsi_01)			
6		+Ciphering_on( TCV_ch)			
7		+IdentityRequest(C_IMEI, MiTmsi_01)			
8		+Ciphering_off( TCV_ch)			
9		+IdentityRequest(C_IMEI, MiTmsi_01)			
10		+IdentityRequest( C_IMEISV, MiTmsi_01)			
11		+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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_Restablishment, C_BCC, C_NCC, C_Start_Imsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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			
7		ltree_body			
8		+ltree_check_idreqimsi			1.
9		+ltree_EnterCCstateU10			
10		(TCV_Null := OM_Deactivate( TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			
11		+ltree_check_reestablish_imsi			2.
		+ltree_check_tmsi_imsi			3.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
12	L_034 7	+ImsiDetach(Milmsi_31, TimingAdv( 30), C_SIMIn)	ChReq( ChRequest_10)	(P)	4.
13		+ltree_check_luppoweron			5.
14		+ltree_check_luplacchange			6.
15		+ltree_check_cmserveqimsi			7.
16		+ChanRel_end(TCV_ch)			To match ChReq retrans.
		ltree_check_idreqimsi			
17		+PreEstRRC_MM (Milmsi_31, TCV_cks, TimingAdv( 30))			
18		+IdentityRequest(C_IMSI, Milmsi_31)			
		ltree_check_reestablish_imsi			
19		L?DL_RacInChRq ( TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			Restore Normal default
20		ACTIVATE(OtherEventsFail_02)			
21		L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
22		L?DL_EstInCmreRq	CmreReq_02( Milmsi_31, LocAreald_anyomit, TSPX_CKSNDf)		
23		ACTIVATE(OtherEventsFail)			
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_cks, TimingAdv( 30))			
28		+Authentication( TCV_ch, TCV_cks, TSPX_RANDDef)			
29		+TmsiReallocation( Milmsi_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, Milmsi_31, C_MCC_1, C_PLMN_1, TCV_lac, TCV_lac, C_imsi_attach, TCV_cks, TimingAdv( 30))			
		ltree_check_luplacchange			
34		(TCV_lac:= C_LAC_2)			
35		(TCV_slot := C_S0, TCV_tsc := C_BCC)			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36	L_034 8	+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)	LocAcp( TCV_ch, LocUpdtAcp_01( Milmsi_31iei, C_MCC_1, C_PLMN_1, TCV_lac))	(P)	To match ChReq retrans.
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, Milmsi_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_cks,sn, TimingAdv(30))			
43		(TCV_Null:=OM_PgFill(TCV_cellid, PgReqTp1Norm))			
44		L!DL_DatRqLupAcp			
45		+ChanRel(TCV_ch)			
46		ltree_check_cmsservreqimsi			
47		+BasicServiceMO( TSPX_MOBscSvcF, TSPX_MOChRateF)			
48		+InitCall(TCV_Service)			
49		L?DL_RacInChRq( TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_15)		
50		ACTIVATE(OtherEventsFail_02)			
51		L!DL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
52		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_30( Milmsi_31))		
	ACTIVATE(OtherEventsFail)			Restore Normal default	
		ltree_EnterCCstateU10			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
53	L_034 9	L!DL_DatRqAuthRq	AuthReq( TCV_ch, AuthRequest( TSPX_CKSNDDef, TSPX_RANDDef))	(I)	
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		[NOT TCV_Res ]			
57		+PostMainLinkRel( TCV_ch)			
58		[TCV_Res ]			
59		+Cipherring_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			
68		ltree_assignTch			
69		+CCAssignTCH( TSPX_TmSltDef, TSPX_TscDef)			
70		L!DL_DatRqConnAck	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))		
		+CCstatuschk_02( TCV_chTch, C_U10, TI_02, TI_01)			
<b>Detailed Comments</b> : 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		LIDL_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		LIDL_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_MaxPwrLvIG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		Contains same params as in StartCell B, 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
17		startcells_AandB +IdleUpdated( C_E_default, C_CellA, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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)			
19	body	ltree_body			
20		+ltree_switchcelltoB_LupPag1			
21		+ltree_switchcelltoA_LupPag			
22		+ltree_switchcelltoB_LupPag2			
		ltree_switchcelltoB_LupPag1			
		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

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)			
29		ltree_switchcelltoA_LupPag			
30		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
31		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_09)		
32		ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
33		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
34		L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_31( MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn))		
35		ACTIVATE( OtherEventsFail)			Restore Normal default
36	L_0350	L!DL_DatRqLupAcp	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_1, C_LAC_1))	(P)	
37		+ChanRel( TCV_ch)			
38		+WaitForInService			
39		+CCCH_group_Paging_group ( TCV_Ccd0A, TSPX_IMSI)			
40		+SelectPagingCh( C_CellA)			
41		+PreEstRRC_MM( MiTmsi_02, TCV_cksn, TimingAdv( 30))			
42		+ChanRel( TCV_ch)			
43		ltree_switchcelltoB_LupPag2			
44		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

**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	body	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_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		+execution1			
5		+execution2			
6		+execution3			
7		execution1 +Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
8		+MM_LupRej( C_rc_imsiunknownhrl, C_normal_updating, TimingAdv( 30))			
9		+ltree_main			
10		+ChanRel(TCV_ch)			
11		execution2 +Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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	post	+ChanRel(TCV_ch)			
15		execution3			
16		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
17		+MM_LupRej( C_rc_illegal_me, C_normal_updating, TimingAdv( 30))			
18		+ltree_main			
19		+ChanRel_end(TCV_ch)			
20		ltree_main			
21		+BasicServiceMO(TSPX_MOBScSvcD, TSPX_MOChRateD)			
22		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
23		+NoReaction( 30000)			
24		+NoReaction( 420000)			
25		+MM_no_paging ( Milmsi_01, 3000, TCV_Ccd0A, C_CellA)			
26		+MM_no_paging( MiTmsi_01, 3000, TCV_Ccd0A, C_CellA)			
27		+MM_no_cmsservices( 3000)			
28		+MM_check_ecall1(TimingAdv( 30), Milmei_01)			
29		+ImsiDetachNoReaction( 3000, C_SIMneedRmv)			
		+MM_PwrOrSimOn (C_SIMneedRmv)			
		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_ksn_nokey, TCV_ksn, 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			8)
11		ltree_continue (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_CKSNDDef, 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), Milmsi_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_CKSNDDef, 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, Milmsi_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 suppressed 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+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_CKSNDDef, 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_CKSNDDef, 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)

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		+MM_LuplInit( Milmsi_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_CKSNDDef, 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, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv( 30))			
<b>Detailed Comments</b> : 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 suppressed 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 forbidden 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_noReestablishment, C_BCC, C_NCC)			
5		+ltree_body  ltree_body			
6		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_cmsservices( 3000)			4)
11		+MM_check_ecall1( TimingAdv( 30), Milmsi_01)			4)
12		+ImsiDetachNoReaction( 3000, C_SIMIn)			5)

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
13		+MM_PwrOrSimOn ( C_SIMIn)			
14		+MM_LupRej2( C_rc_LAnotallowed, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksnokey, TimingAdv( 30))			6)
15		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_cksno, TSPX_RANDDef, TimingAdv( 30))			7)
17		+ChanRel_end( TCV_ch)			
<b>Detailed Comments :</b> 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_CKSNDf, 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_CKSNDf, 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_035 2	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)			
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_CKSNDDef, 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_CKSNDDef, 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( Milmsi_01, 3000, TCV_Ccd0B, C_CellB)			3b)
12		+Varinit_fix( C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
13		+MM_no_paging( Milmsi_01, 3000, TCV_Ccd0A, C_CellA)			3a)
14		+MM_no_cm services( 3000)			4)
15		+MM_check_ecall1( TimingAdv( 30), Milmsi_01)			4)
16		+ChanRel_end( TCV_ch)			
<b>Detailed Comments</b> : 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	body	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_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_CKSNDf, 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		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_CKSNDf, 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_CKSNDf, 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	L_035 3	+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)			2)
10		+MM_LupRej( C_rc_roamingnot, C_normal_updating, TimingAdv( 30))			
11		+ltree_continue			
12		ltree_continue			
13		+Varinit_fix( C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
14		+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)			
15		+MM_LupRej( C_rc_roamingnot, C_normal_updating, TimingAdv( 30))			
16		+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)			
17		+MM_LupRej( C_rc_roamingnot, C_normal_updating, TimingAdv( 30))			
18		+Varinit_fix( C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
19		+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)			
20		+MM_LupRej( C_rc_roamingnot, C_normal_updating, TimingAdv( 30))			
21		START T_dly( 420000)			
		?TIMEOUT T_dly		P	3)
<b>Detailed Comments</b> : 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_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_CKSNDf, 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_CKSNDf, 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)
<b>Detailed Comments</b> : 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	body	[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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_035 5	[NOT TSPC_SIMRmv]		I	
<b>Detailed Comments</b> : 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_CKSNDf, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			1)
5		(TCV_Cnt:=0)			
6		REPEAT Itree_ra UNTIL [TCV_Cnt = (TSPX_MaxRetrans+1)]			2)
7		START T_dly( 4000)			
8	L_035 6	?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)
15		ltree_ra L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn, TCV_Cnt := TCV_Cnt + 1)	ChReq( ChRequest_09)		
<b>Detailed Comments :</b> 1) MS shall selects cell A, cell B is not available. 2) To send Max–Retrans+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–Retrans+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_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_CKSNDf, 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_CKSNDf, 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_cks, 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( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_cksnokey, TimingAdv( 30), TCV_sacch_B, C_T_T3211min)			In cell B
13		+MM_LupInit( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_cksnokey, TimingAdv( 30))			1.2.
14		+ChanRel(TCV_ch)			
15		+NoReaction( C_T_T3211min)			
16		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal Updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			1.2.
17		+ChanRel(TCV_ch)			
18		ltree_confreq2 +Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
19		+MM_LupRej2( C_rc_conditlEerror, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal Updating, TCV_cksno, 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			
25		ltree2_send (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		+lmsiDetachNoReaction( 30000, C_SIMneedRmv)			
30		+MM_PwrOrSimOn( C_SIMneedRmv)			
31		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal Updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			
32		+ChanRel(TCV_ch)			
33	L_035 7	ltree_wait_or_Rej ?TIMEOUT T_dly		(P)	
34		(TCV_Null := TRUE)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35	L_035 8	+MM_LupRej( C_rc_conditlError, C_normal_updating, TimingAdv( 30))		(F)	2.3.
36		ltree_confreq3			
37		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
38		+MM_LupAuthRpt( MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cks, TSPX_RANDDef, TimingAdv( 30))			
39		+NoReaction( 3000)			3.2.
40		+MM_check_ecall2( Milmsi_01, C_cksnokey, TimingAdv( 30))			
41		START T_dly( 15000)			3.3.
42		?TIMEOUT T_dly			
43		+ChanRel(TCV_ch)			
44		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cks, TSPX_RANDDef, TimingAdv( 30))			
45		+ChanRel(TCV_ch)			
46		ltree_confreq4			
47		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			In cell A
48		+MM_LupAndStop( MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cks, TimingAdv( 30), TCV_sacch, 0)			
49		+BasicServiceMO( TSPX_MOBscSvcD, TSPX_MOChRateD)			
50		+InitCall(TCV_Service)			
51		+MM_LUP2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TimingAdv( 30))			4.2.
52	L_035 9	START T_dly( 10000)	ChReq( ChRequest_02)	(P)	4.3.
53		?TIMEOUT T_dly			
54		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			4.3.
55		ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
56		CANCEL T_dly			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
55		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
56	L_036 0	L?DL_EstInCmsRq	CMSerReq( CServiceReq_32( MiTmsi_01, C_cksnokey))	(P)	
57		ACTIVATE( OtherEventsFail)			Restore Normal default
58		+ChanRel( TCV_ch)			
59		ltree_confreq6			
60		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
61		+MM_Luplnit( MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, C_cksnokey, TimingAdv( 30))			
62	L_036 1	L!DL_DatRqChRel START T_dly( C_T_T3211plus)	ChRel( TCV_ch, ChRelease_01)		
63		L?DL_Relln	DLRelInd_01	(P)	
64		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			6.2.
65		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			
66	L_036 2	+ChanRel_end(TCV_ch) ?TIMEOUT T_dly		(F)	6.1.

**Detailed Comments :**

- 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.
- Test of Conformance Requirement 2
  - 2.1. Reject of Location Updating in cell A
  - 2.2. MS shall not answer to paging
  - 2.3. All of location updating requests shall be rejected.
  - 2.4. MS shall not perform the IMSI detach procedure.
- 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
- Test of Conformance Requirement 4

### 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	body	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_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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		+ltree_part1				1.
5		+ltree_part2				2.
6		+ltree_part3				3.
7		ltree_part1 +Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_cks, TimingAdv( 30))				
9		+NoReaction( C_T_T3211min)				
10		+MM_LupAndStop( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cks_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( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_ksn_nokey, TSPX_RANDDef, TimingAdv( 30))			
12		+ltree_part1_2			
		ltree_part1_2			
13		+NoReaction( C_T_T3211min)			
14		+MM_LupInit( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_ksn_nokey, TimingAdv( 30))			
15		+ChanRel(TCV_ch)			1.1.
16		+NoReaction( C_T_T3212min)			
17		+MM_LupRej2( C_rc_networkfailure, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_ksn_nokey, TimingAdv( 30))			1.2.
18		+NoReaction( C_T_T3211min)			
19		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal Updating, C_ksn_nokey, TCV_ksn, TSPX_RANDDef, TimingAdv( 30))			1.3.
20		+ChanRel( TCV_ch)			
		ltree_part2			
21		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_ksn_nokey, TimingAdv( 30))			2.1.
24		+MM_check_ecall2( Milmsi_01, C_ksn_nokey, TimingAdv( 30))			2.2.
25		+ImsiDetachNoReaction( 3000, C_SIMIn)			7.
26		+MM_PwrOrSimOn( C_SIMneedRmv)			
27		+MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal Updating, C_ksn_nokey, TCV_ksn, TSPX_RANDDef, TimingAdv( 30))			
28		+ChanRel(TCV_ch)			
		ltree_part3			
29		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
30		+ltree_increaseATcounter( C_LAC_2, TCV_sacch)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_036 3	+MM_LupAndStop( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_cksnokey, TimingAdv( 30), TCV_sacch, 0)	ChReq( ChRequest_02)	(P)	3.1.
32		+BasicServiceMO( TSPX_MOBscSvcF, TSPX_MOChRateF)			3.2.
33		+InitCall(TCV_Service)			
34		+MM_LupInit( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal Updating, C_cksnokey, TimingAdv( 30))			
35		+ChanRel(TCV_ch)			3.3.
36		+ltree_part3_2			
		ltree_part3_2			
37		+NoReaction( C_T_T3211min)			
38		+MM_LUPauth2 ( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal Updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			
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			To match ChReq retrans.
45		ACTIVATE(OtherEventsFail_02)			
46		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
47		L?DL_EstInCmsRq	CMSerReq( CMSerReq_32( MiTmsi_01,TCV_cksno))		
48		ACTIVATE(OtherEventsFail)			Restore Normal default
49		L!DL_DatRqCmsRej	CMSerRej( TCV_ch, CMSerReq_30( C_rc_networkfailure))		
50		+ChanRel(TCV_ch)			
		ltree_part3_4			
51		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52	post	+ltree_increaseATcounter( C_LAC_1, TCV_sacch_B)			
53		+MM_LupRej2( C_rc_invalidmaninfo, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksnokey, TimingAdv( 30))			3.4.
54		+Switchcell( C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			3.5.
55		+MM_LupAndStop( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksnokey, TimingAdv( 30), TCV_sacch, C_T_T3211min)			
56		+MM_LUPauth2( MiTmsi_01iei , Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			3.6.
57		+ChanRel_end(TCV_ch)			
58		ltree_increaseATcounter( lac : OCTETSTRING; par: LOGICCH)			
59		+MM_LupRej2(C_rc_notidentified, MiTmsi_01, C_MCC_1, C_PLMN_1, lac, C_normal_updating, TCV_cksno, TimingAdv( 30))			
60		+NoReaction( C_T_T3211min)			
61		+MM_LupAndStop( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksnokey, TimingAdv( 30), par, C_T_T3211min)			
62		+MM_LupInit( Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksnokey, TimingAdv( 30))			
63		+ChanRel(TCV_ch)			
		+NoReaction( C_T_T3211min)			
<b>Detailed Comments :</b> <ol style="list-style-type: none"> <li>1. To test conformance requirement 1 <ol style="list-style-type: none"> <li>1.1. Attempt counter is now equal to 4</li> <li>1.2. MS shall perform location updating after T3212</li> <li>1.3. MS shall initiate location updating procedure, if the updating was unsuccessful.</li> </ol> </li> <li>2.) To test conformance requirement 2 <ol style="list-style-type: none"> <li>2.1. Attempt counter is now equal to 4</li> <li>2.2. MS shall perform request for emergency call</li> <li>2.3. MS shall not perform an IMSI detach procedure</li> </ol> </li> <li>3.) To test conformance requirement 3 and 4 <ol style="list-style-type: none"> <li>3.1. Attempt counter is now equal to 4</li> <li>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.</li> <li>3.3. MS shall reset the attempt counter after successful location updating procedure.</li> <li>3.4. Attempt counter is now equal to 4</li> <li>3.5. MS shall perform the normal location updating procedure after entering a new cell.</li> <li>3.6. If the location updating procedure unsuccessful, the MS shall trigger the location updating after T3211 again.</li> </ol> </li> </ol>					

## 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_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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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.
9		ltree_confreq1			
10		(TCV_tmp := (C_T_T3212 + 45000))			
11		+MM_LUPperrej2( C_rc_networkfailure, MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30))			1.1.
12		+BasicServiceMO( TSPX_MOBscSvcA, TSPX_MOChRateA)			
13		+InitCM(TCV_Service)			
14		+ltree_cmserinit( MiTmsi_01, TCV_cks)			1.2.
15		LIDL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMSerAcp_01)		
16		+ltree_CMmsg			
17		+ChanRel(TCV_ch)			
18		(TCV_n := 2 * C_T_T3211min)			
19		+NoReaction( TCV_n)			1.3.

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
19		+ImsiDetach( MiTmsi_01, TimingAdv( 30), C_SIMneedRmv)			
20		ltree_confreq2			
21		+ltree_MOCall			
22		+NoReaction( TCV_n)			2.3.
23		+ImsiDetach( MiTmsi_01, TimingAdv( 30), C_SIMneedRmv)			
24		+MM_PwrOrSimOn(C_SIMneedRmv)			
25		+MM_LupInit( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cks, TimingAdv(30))			
26		LIDL_DatRqLupAcp	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		
27		+ChanRel(TCV_ch)			
28		ltree_confreq3			
29		(TCV_tmp := (C_T_T3212 + 15000))			
30		+MM_LUPperrej3( MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30))			3.1.
31		+NoReaction(C_T_T3211min)			
32		+MM_LupRej2( C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30))			3.1.
33		+NoReaction( C_T_T3211min)			
34		+MM_LupAndStop( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30), TCV_sacch_B, C_T_T3211min)			3.1.
35		+ltree_luprej3( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30))			3.1.
36		+MM_LUPperauth( Milmsi_01, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normalOrperiodic, C_cks_nokey, TSPX_RANDDef, TimingAdv( 30))			3.2.
37		+ChanRel(TCV_ch)			
38		ltree_confreq4			
39		+NoReaction( C_T_T3212min)			
40		+MM_LupRej2( C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30))			
41		+NoReaction(C_T_T3211min)			
42		+MM_LupAndStop( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv( 30), TCV_sacch_B, C_T_T3211min)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
40	L_036 4	+ltree_luprej3( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cksn, TimingAdv( 30))	ChReq( ChRequest_02)	(P)	4.1.
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))			
44		+BasicServiceMO( TSPX_MOBScSvcB, TSPX_MOChRateB)			
45		+InitCM(TCV_Service)			
46		+MM_LUP2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TimingAdv( 30))			
47		START T_dly(10000)			
48		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly			
49	L_036 5	ACTIVATE(OtherEventsFail_02)	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))	(P)	To match ChReq retrans.
50		LIDL_UdatRqlmmiss			
51		L?DL_EstInCmsRq			
52		ACTIVATE(OtherEventsFail)			
53		L!DL_DatRqCmsRej			
54		+ChanRel(TCV_ch)			
55		?TIMEOUT T_dly			
		ltree_confreq5			
56		+ImsiDetach( MiTmsi_01, TimingAdv( 30), C_SIMneedRmv)			
57		+MM_PwrOrSimOn (C_SIMneedRmv)			
58	L_036 5	+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)	CMSerRej(TCV_ch, CMSerRej_04)	(P)	4.3)
59		+ltree_luprej3( MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_imsi_attach, C_cksn_nokey, TimingAdv( 30))			

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( Milmsi_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, Milmsi_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_cmsservinit( MiTmsi_01, TCV_cksn)			
79		LIDL_DatRqCmsRej	CMSSerRej(TCV_ch, CMServiceRej_04)		
80		+ChanRel( TCV_ch)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
81		ltree_cmservinit(par1: MI; par2: BITSTRING)			
82		START T_dly(15000)			
		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_02)		
83		CANCEL T_dly ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
84		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
85	L_036 6	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_32( par1, par2))	(P)	
86		ACTIVATE(OtherEventsFail)			Restore Normal default
87	L_036 7	?TIMEOUT T_dly		(F)	
		ltree_CMmsg			
88	L_036 8	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv( SetupInd_01)	(P)	1.2.
89	L_036 9	L?DL_DatInRegister	Register_03( RegisterPdu_01)	(P)	1.2.
90		L?DL_EstIn	DLEstInd_2(TCV_ch)		
91	L_037 0	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_ksn, TimingAdv( 30), TCV_sacch_B, 0)			2.1)
96		+BasicServiceMO( TSPX_MOBScSvcD, TSPX_MOChRateD)			
97		+InitCM(TCV_Service)			
98		+ltree_cmservinit( MiTmsi_01, TCV_ksn)			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))			



## 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	body	START T_guard(300)	ChReq( ChRequest_09)		To match ChReq retrans.
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_CKSNDf, 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		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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)			
6		ACTIVATE( OtherEventsFail_02)			
7		LIDL_UdatRqImmass			
8		L?DL_EstInLupRq			

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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_037 1	L?DL_RelIn CANCEL T_dly	DLRelInd_01	P	1)
13	L_037 2	?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	body	START T_guard(1200)			ATT = 1 – IMSI attach allowed
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_5, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+ImsiAttach( MiTmsi_01, TimingAdv( 30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
4		+step1			
5		+step2			
		step1			
6		START T_dly( 180000)			5min.45 s.
7		START T_dly2( C_T_T3212min)			
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)			
10		?TIMEOUT T_dly2			
11		+MM_LUPper2(30000, C_periodic Updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv( 30))			2) 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)			
<b>Detailed Comments :</b> 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	body	START T_guard(1800)	ChReq( ChRequest_02)	(P)	To match ChReq retrans.
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+InitCall(TCV_Service)			
5	L_037 3	START T_dly( 705000)	CMServiceReq( CMServiceReq_01)	(P)	Restore Normal default
6		L?DL_RaInChRq (TCV_Rr := DL_RaInChRq. msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)			
7		ACTIVATE(OtherEventsFail_02)			
8		LIDL_UdatRqImmass			
9		L?DL_EstInCmsRq	CMSerRej( TCV_ch, CMServiceRej_30( C_rc_networkfailure))	(P)	
10		ACTIVATE(OtherEventsFail)			
11		LIDL_DatRqCmsRej			

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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(Milmsi_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_UdatRqImmss	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)			
<b>Detailed Comments</b> : 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	body	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_CKSNDf, 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		+Switchcell( C_CellA, C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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)			
<b>Detailed Comments</b> : 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. Where 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_CKSNDDef, 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		LIDL_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			
10		ltree_continue +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_CKSNDDef, 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_037 4	?TIMEOUT T_dly		(F)	PLMN1
14		+MM_LupInit4( C_normal_updating, TimingAdv( 30))			
15		L!DL_DatRqLupAcp		(P)	
16	L_037 5	+ChanRel_end( TCV_ch)	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))		
<b>Detailed Comments</b> : 1) Initial condition: LAI deleted, HPLMNsearchperiod=6min					

Test Case Dynamic Behaviour	
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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_CKSNDDef, 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			
9		ltree_continue			
10		(TCV_Null := OO_PLMNselModeMan())			2)
11		+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)
12		+Varinit_fix( C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
13		+NoReaction( 420000)			

<p><b>Detailed Comments</b> : 1) Initial condition: LAI deleted, HPLMN searchperiod = 6min  2) MS in manual mode.  3) made cell A available.</p>
--

## 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	body	START T_guard(480)	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac))		1)
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_CKSNDf, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+MM_PwrOrSimOn ( C_SIMneedRmv)			
5		+MM_LupInit5( C_normal_updating, TimingAdv( 30))			
6		LIDL_DatRqLupAcp			
7		+ChanRel(TCV_ch)			
8		+ltree_continue			
9		ltree_continue +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)			
10		+Varinit_fix( C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TCV_Ccd0A, TSPX_IMSI)			
11		+NoReaction( 120000)			
12		START T_dly(360000)			
13	L_037 6	?TIMEOUT T_dly		(F)	3)

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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)			
<b>Detailed Comments</b> : 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	body	START T_guard(2100)			PR 1)
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( 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_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
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_CKSNDDef, 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		+ltree_body1			
9		+ltree_body2			
10		+ltree_body3			
11		+RmvForbiddenPlmn( C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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
12	L_037 7	ltree_body1 +MM_PwrOrSimOn( C_SIMneedRmv)		(P)	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	L_037 8	+ltree_StartCellAandB	ChReq( ChRequest_02)	(P)	3)
20		?TIMEOUT T_dly1			
21		ltree_body2 START T_dly1( 30000)			
22		+ltree_perluprest( C_periodic_updating)			4)
23		+NoReaction( 180000)			
24		(TCV_Null := OM_StopCell( C_CellA))			
25		ltree_body3 +NoReaction( 660000)			5)
26	L_037 9	+ltree_StartCellAandB (TCV_Null := OM_StopCell( C_CellB))	LocUp( TCV_ch, LocUpdtReq_01( locup))	(P)	
27		START T_dly1( 180000)			
28		+ltree_perluprest( C_periodic_updating)			6)
29		ltree_perluprest( locup : B_2)			
30		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
31		CANCEL T_dly1 ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
32		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
33	L_038 0	L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_01( locup))	(P)	
34		ACTIVATE( OtherEventsFail)			Restore Normal default
35		L!DL_DatRqLupAcp			
36	L_038 0	+ChanRel(TCV_ch)	LocAcp( TCV_ch, LocUpdtAcp_01( MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac))	(F)	
37		?TIMEOUT T_dly1			
		ltree_StartCellAandB			



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)			
<p><b>Detailed Comments</b> : 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.</p> <p>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.</p> <p>PS1) Final postamble: The PLMN of cell B is suppressed on the SIM's forbidden PLMN list.</p>					

## 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\_CKSNDf

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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
8	L_038 1	L?DL_EstInCmsRq	CMSerReq( CMSerReq_32( MiTmsi_01, TSPX_CKSNDf))	(P)	
9		ACTIVATE( OtherEventsFail)			Restore Normal default
10		+Authentication( TCV_ch, TCV_cks, 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	L_038 2	+ChanRel_end( TCV_ch)		(P)	
14		ltree_CMmsgs			
15		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
16		L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_04( TCV_TI))		
17		L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI.ti_f := '1'B)	Register_01(TCV_ch, RegisterPdu_01)		
18		L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_08( TCV_TI))		
19		L?DL_EstIn	DLEstInd_2(TCV_ch)		
20		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)		
21		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_03( TCV_TI), TCV_ch)		
22		L!DL_DatRqCpData	DatRqCpData( CpDataPdu_02( TI_08( TCV_TI.ti_v), CpData_04( TCV_Rpmr)), TCV_ch)		
23	L_038 3	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_038 4	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_104 2	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)	(P)	
14	L_038 5	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_038 6	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_038 7	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\_CKSNDf

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_Immasc, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		LIDL_UdatRqImmasc	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
8	L_038 8	L?DL_EstInCmsRq	CMSerReq( CMSerReq_32( MiTmsi_01, TSPX_CKSNDf))	(P)	1.
9		ACTIVATE( OtherEventsFail)			Restore Normal default
10		LIDL_DatRqCmsRej	CMSerRej( TCV_ch, CMSerReq_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,Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cksno, TSPX_RANDDef, TimingAdv( 30))			3.
13		+ChanRel_end( TCV_ch)			
<b>Detailed Comments :</b> 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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		LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 30)))		
8	L_038 9	L?DL_EstInCmsRq	CMSerReq( CMSerReq_01)	(P)	
9		ACTIVATE( OtherEventsFail)			Restore Normal default
10		+NoReaction( C_T_T3230min)			
11	L_039 0	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		LIDL_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_039 1	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_01)   <		

## 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6	body	+InitNonCallSupp			1.
7	L_039	L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)	(P)	
8	2	LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		L?DL_DatInRegister	Register_01( TCV_chTch, RegisterPdu_01)		
10		LIDL_DatRqAbrt	Abort( TCV_chTch, Abortmsg_01( C_rc_networkfailure))		2.
11		LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TL_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_039 3	L?DL_DatInRelCmp	RelComRcv( ReleaseCmpRcv( TI_01, Cause_07))	(P)	
13		+ChanRel_end( TCV_chTch)			
<b>Detailed Comments</b> : 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					
<b>Test Case Name</b> : TC_26_7_5_8_1					
<b>Group</b> : MM/					
<b>Purpose</b> : 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.					
<b>Configuration</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> : 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	body	START T_guard(300)	LocAcp( TCV_ch, LocUpdtAcp( C_MCC_1, C_PLMN_1, TCV_lac))		att=1
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_noReestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+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		LIDL_DatRqLupAcp			
8		+NoReaction( 8000)			
9		+ChanRel_end( TCV_ch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			att=1
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
3		+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		LIDL_DatRqLupAcp			
8	post	[NOT TSPC_followOnReq]	LocAcp( TCV_ch, LocUpdtAcp_02( C_MCC_1, C_PLMN_1, TCV_lac))		1.
9		+NoReaction( 8000)			
10		+ChanRel_end(TCV_ch)			
11		[TSPC_followOnReq]			
12		+CMSrvcRq			
13		+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	body	START T_guard(300)			att=1
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+ImsiAttachIni (MiTmsi_01, TimingAdv( 30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)			
5		L!DL_DatRqLupAcp CANCEL T_dly			
6	L_039 4	+NoReaction( 5000)	LocAcp( TCV_ch, LocUpdtAcp_02( C_MCC_1, C_PLMN_1, TCV_lac))	(P)	1.
7		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		2.
8		L?DL_DatInCallCo	CallCfm( CallConfirm_01( TI_01))		
9		+ChanRel_end( TCV_ch)			
10		L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_03( TI_01))		
11	L_039 5	+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	body	START T_guard(300)	ChReq( ChRequest_19)		To match ChReq retrans. 1.
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_CKSNDDef, 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		L?DL_RaInChRq (TCV_Rr := DL_RaInChRq. msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)			
7		ACTIVATE( OtherEventsFail_02)			
8		LIDL_UdatRqlimmass			
9		L?DL_EstInCmsRq			
10		ACTIVATE( OtherEventsFail)			
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_CKSNDDef, 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	LIDL_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_CKSNDDef, 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	LIDL_DatRqCmsAcp	CMSerAcp(TCV_ch, CMSERVICEAcp_01)		
7		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			2.
8		(TCV_CalledNum := TCV_Setup_mo1.cdpm, TCV_Res := OO_CalledPtyNumCHK(TCV_CalledNu m))			
9	L_039 6	[NOT TCV_Res ]		(F)	3.
10		+PostMainLinkRel(TCV_ch)			
11	L_039 7	[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	body	START T_guard(300)			1.
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_CKSNDDef, 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		(TCV_Null := OM_LowerLayerFail( TCV_ch))			
7		START T_dly( 20000)			
8		?TIMEOUT T_dly			
9		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			
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	body	START T_guard(300)	CallProc( TCV_chTch, TCV_CallProc)		1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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)			2.
6		+PreEnterCCstateU1_22(TSPX_TmSlitDe f, TSPX_TscDef, TimingAdv( 0))			
7		LIDL_DatRqCallProc			
8		+CCstatuschk_05( C_U3, 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.  
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_Tm SlitDef, 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_039 8	[(TCV_Time < 24000) OR (TCV_Time >= 36000)]		(F)	
9		+PostMainLinkRel( TCV_chTch)			
10	L_039 9	[(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	body	START T_guard(300)			1.
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_CKSNDDef, 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		+PreEnterCCstateU1_24(TSPX_TmSltDe f, TSPX_TscDef, TimingAdv( 0))			3.
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			4.
8		START T_dly(20000)			5.
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			
11		+CheckTIsInStateU0( TRUE, TCV_ch)			
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	body	START T_guard(300)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDe f, TSPX_TscDef, TimingAdv( 0))			
7		LIDL_DatRqAlert			
8		+CCstatuschk_05( C_U4, TCV_TI, TCV_chTch)			
9		+PostMainLinkRel( TCV_chTch)			
			AlertSnd( TCV_chTch, Alerting_01( TCV_TI))		

**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	body	START T_guard(300)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		LIDL_DatRqConn			
8		L?DL_DatInConnAck			
9		+CCstatuschk_05( C_U10, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel( TCV_chTch)			
			ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
			ConnAckRcv( ConnectAck_02( TCV_TI0))		

**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_CKSNDDef, 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_040 0	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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDe f, TSPX_TscDef, TimingAdv( 0))			
7		LIDL_DatRqAlert			
8		+CCstatuschk_05( C_U4, TCV_TI, TCV_chTch)			
9		+PostMainLinkRel( TCV_chTch)			
			AlertSnd( TCV_chTch, Alerting_01( TCV_TI))		

**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_CKSNDDef, 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	LIDL_DatRqConn	ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
8		(TCV_Res := OO_ToneStopCHK())			
9		L?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))		
10	L_040 1	[TCV_Res ]		(P)	
11		+CCstatuschk_05( C_U10, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel( TCV_chTch)			
13	L_040 2	[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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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_040 3	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqProg	Progress( TCV_chTch, Progress_02( TCV_TI))		
8		(TCV_Res := OO_TCHThroConnCHK())			
9		[TCV_ChMod.mode = C_ChMod_r]			2.
10	L_040 4	[TCV_Res ]		(P)	
11		+localtree			
12	L_040 5	[NOT TCV_Res ]		(F)	
13		+PostMainLinkRel( TCV_chTch)			
14		[TCV_ChMod.mode<> C_ChMod_r]			3.
15	L_040 6	[NOT TCV_Res ]		(P)	
16		+localtree			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
17	L_040 7	[TCV_Res ]		(F)	
18		+PostMainLinkRel(TCV_chTch)			
19		localtree			4.
20		+CCstatuschk_05( C_U3, TCV_TI, TCV_chTch)			5.
21	L_040 8	START T_dly( 45000) 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_040 9	[TCV_Res ]		(P)	
28		+PostMainLinkRel( TCV_chTch)			
29	L_041 0	[NOT TCV_Res ]		(F)	
30		+PostMainLinkRel( TCV_chTch)			
31	L_041 1	[TCV_ChMod.mode<> C_ChMod_r]		(P)	
32		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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_041 2	[TCV_Res]		(P)	2.
11		+CCstatuschk_05( C_U12, TCV_TI, TCV_chTch)			3.
12		+PostMainLinkRel( TCV_chTch)			
13	L_041 3	[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_041 4	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))	(P)	4.
17		+CCstatuschk_05( C_U19, TCV_TI, TCV_chTch)			
18		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		LIDL_DatRqDisc			2.
8		L?DL_DatInRel			
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 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TCV_TI))		
8	L_041 5	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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.
6	body	(TCV_Null := OO_TermCall())			
7	L_041 6	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	body	START T_guard(300)			1.
2		+BasicServiceMOorTelephony( TSPX_MOBscSvcl, TSPX_MOChRatcl)			
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_CKSNDcl, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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)			2.
6		+PreEnterCCstateU3_23( TSPX_SDCCH4SubDef, TimingAdv( 0), TSPX_CKSNDcl, TSPX_RANDDef)			
7		+CCAssignTCH( TSPX_TmSlitDef, TSPX_TscDef)			3.
8		+CCstatuschk_05( C_U3, TCV_TI, TCV_chTch)			
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.
6	body	START T_dly1( 45000)			
7	L_041 7	?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_041 8	[TCV_Time < 29400]		(F)	4.
12		+PostMainLinkRel( TCV_ch)			
13	L_041 9	[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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			3.
8		START T_dly( 20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			4.
11		+CheckTIsInStateU0( TRUE, TCV_ch)			
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_CKSNDDef, 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	LIDL_DatRqUndefCC	UndefCC( TCV_ch, UndefCC_02( TCV_TI))		2.
7	L_042 0	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 whether 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_CKSNDDef, 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_042 1	[TCV_Res ]		(P)	1.
9		+CCstatuschk_05( C_U4, TCV_TI, TCV_ch)			2.
10		+PostMainLinkRel( TCV_ch)			
11	L_042 2	[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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
7	body	LIDL_DatRqConn	ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
8	L_042 3	L?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))	(P)	2.
9		(TCV_Res := OO_AltIndCHK())			
10	L_042 4	[TCV_Res ]		(F)	
11		+PostMainLinkRel( TCV_chTch)			3.
12	L_042 5	[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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
7	body	(TCV_Null := OO_TermCall())			
8	L_042 6	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)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		
8		[TCV_ChMod.mode = C_ChMod_r]			(P)
9		+CCstatuschk_05( C_U12, TCV_TI, TCV_chTch)			
10		+PostMainLinkRel( TCV_chTch)			
11		[TCV_ChMod.mode <> C_ChMod_r]			
12	L_042 7	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))		
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_CKSNDf, 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_TmSltDe f, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
8	L_042 8	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TCV_TI))		
8	L_042 9	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	body	START T_guard(300)			1.
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			
8		START T_dly( 20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
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	body	START T_guard(300)			1.
2		+BasicServiceMOorTelephony(TSPX_MOBscSvcl, TSPX_MOChRatel)			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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		+CCAssignTCH(TSPX_TmSlitDef, 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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_CKSNDDef, 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_043 0	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+InitCall( TCV_Service)			
5		+CCCConfigTCH( 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	LIDL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TCV_TI))		
8	L_043 1	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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_043 2	[TCV_Res ]		(P)	Inband info audible
11		+CCstatuschk_05( C_U12, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel( TCV_chTch)			
13	L_043 3	[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	L_043 4	+PostMainLinkRel( TCV_chTch)	ReleaseRcv( Release_10( TCV_TI0))	(P)	
15		[TCV_ChMod.mode <> C_ChMod_r]			
16		L?DL_DatInRel			
17		+CCstatuschk_05( C_U19, TCV_TI, TCV_chTch)			
18		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments</b> : 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		3.
8	L_043 5	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_CKSNDDef, 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	LIDL_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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
5		+CCCConfigTCH( 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		LIDL_DatRqSetup	SetupSnd( TCV_chTch, TCV_Setup_mt)		5.
10	L_043 6	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_043 7	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))		7.
16		+CCstatuschk_05( C_U10, TCV_TI, TCV_chTch)			
17		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.
7	body	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		
8	L_043 8	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_CKSNDf, 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_CKSNDf, TSPX_RANDDef)			2.
7	body	LIDL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TCV_TI))		
8	L_043 9	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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.
7	body	(TCV_Cau0.iei := '00001000'B)			3.
8	L_044 0	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_044 1	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	4.
10		+PostMainLinkRel( TCV_chTch)			
11	L_044 2	[(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

Continued on next page

Test Case Dynamic Behaviour	
Detailed Comments :	<div>... than 27 seconds.</div> <div>5. Pass, if the timeout value of T305 is OK.</div> <div>6. To check whether the MS enters the state U19.</div>

## 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	body	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			
8		START T_dly( 20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_DatRqUndefCC	UndefCC( TCV_chTch, UndefCC_02( TCV_TI))		3.
8	L_044 3	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	body	START T_guard(300)	ReleaseRcv( Release_10(TCV_T10))		1.
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_CKSNDDef, 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, 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		(TCV_Null := OO_TermCall())			
8		L?DL_DatInRel			3.
9		+CCstatuschk_05( C_U19, TCV_TI, TCV_chTch)			4.
10		+PostMainLinkRel( TCV_chTch)			5.

**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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			2.
7	body	LIDL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TCV_TI))		
8	L_044 4	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 related 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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			
8		START T_dly( 20000)			
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			
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	body	START T_guard(300)			1.	
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)				
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)				
7		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_CKSNDDef, 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_044 5	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	1.
9		+PostMainLinkRel( TCV_chTch)			
10	L_044 6	[(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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, 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_044 7	?TIMEOUT T_dly		(F)	4.
11	L_044 8	L?DL_RelIn START T_dly( 10000)	DLRelInd_01	(P)	
12		?TIMEOUT T_dly			
13		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			
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)			
<b>Detailed Comments</b> : 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0))			
7	body	LIDL_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_CKSNDDef, 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	LIDL_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	body	START T_guard(300)			1.
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_CKSNDDef, 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		+InitCall( TCV_Service)			2.
6		+PreEnterCCstateU19_21( TSPX_SDCCH4SubDef, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv( 0))			
7		(TCV_Null := OM_LowerLayerFail( TCV_chTch))			3.
8		START T_dly( 20000)			4.
9		?TIMEOUT T_dly			
10		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			5.
11		+CheckTIsInStateU0( TRUE, TCV_ch)			
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5	body	+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			2.
6		+Authentication(TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)			
7		+Ciphering_on(TCV_ch)			
8		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		3.
9	L_044 9	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_CKSNDDef, 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_CKSNDDef)			
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_32( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
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_045 0	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_CKSNDDef, 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_CKSNDDef)			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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			3.
5	body	(TCV_Null := OO_TermCall())			4.
6	L_045 2	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			3.
5	body	L!DL_DatRqDisc	DiscSnd( TCV_ch, DisconnS( TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		4.
6	L_045 3	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			3.
5	body	L!DL_DatRqRel	ReleaseSnd(TCV_ch, Release_03( TI_02))		4.
6	L_045 4	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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			3.
5		(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_CKSNDDef)			
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU9_34( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			3.
5	body	L!DL_DatRqUndefCC	UndefCC( TCV_ch, UndefCC_02( TI_02))		4.
6	L_045 5	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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( TSPX_MTNIC_BscSvcG, TSPX_MTNIC_ChRateG)			
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.
6		(TCV_Null := OO_HookOff())			
7		L?DL_DatInConn			
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6	body	(TCV_Null := OO_TermCall())			
7	L_045 6	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_Bsc Svcl,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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef)			
5	body	L!DL_DatRqDisc	DiscSnd( TCV_ch, DisconnS( TI_02, Cause_01, ProgInd_03iei, UuInfo_omit))		3.
6	L_045 7	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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( TSPX_MTNIC_BscSvcJ, TSPX_MTNIC_ChRateJ)			
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef)			
5		L!DL_DatRqRel			3.
6		L?DL_DatInRelCmp			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	body	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_32( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
5		(TCV_Null := OM_LowerLayerFail( TCV_ch))			
6		START T_dly( 20000)			
7		?TIMEOUT T_dly			
8		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( TSPX_MTNIC_BscSvcB, TSPX_MTNIC_ChRateB)			
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
6		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 message to the MS.  
3. The expected STATUS message with cause #97 and state U7 received.  
4. To check 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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( TSPX_MTNIC_BscSvcC, TSPX_MTNIC_ChRateC)			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_CKSNDDef, TSPX_RANDDef)			
6		+CCAssignTCH( TSPX_TmSlitDef, 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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( TSPX_MTNIC_BscSvcD, TSPX_MTNIC_ChRateD)			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU7_31( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef)			
5		L!DL_DatRqRelCmp			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef)			
6	body	LIDL_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_CKSNDDef, 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_CKSNDDef)			
6	body	+localtree1			
		localtree1			
7		START T_dly(15000)			
8		?TIMEOUT T_dly			
9		START T_dly(18000)			
10	L_045 8	?TIMEOUT T_dly		(F)	
11		+PostMainLinkRel(TCV_chTch)			
12	L_045 9	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_CKSNDf, 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_CKSNDf)			
6	body	(TCV_Null := OO_TermCall())			2.
7	L_046 0	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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
6		L!DL_DatRqDisc			
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?DL_DatInRel			
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
6	body	L!DL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		
7	L_046 2	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Immass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			
6	body	L!DL_DatRqRel	ReleaseSnd( TCV_chTch, Release_03( TI_02))		
7	L_046 3	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	body	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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU8_31( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef)			
5		(TCV_Null := OM_LowerLayerFail( TCV_ch))			3.
6		START T_dly( 20000)			
7		?TIMEOUT T_dly			
8		+CCEstablishMT_SDCCH4( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDf)			
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	body	START T_guard(300)			1.
2		+BasicServiceMTorTelephony( 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6		+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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			2.
4		+PreEnterCCstateU8_31( TimingAdv( 0), TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef)			
5	body	L!DL_DatRqUndefCC	UndefCC( TCV_ch, UndefCC_02( TI_02))		3.
6	L_046 4	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 message 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_CKSNDDef, 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_CKSNDDef, 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_046 5	[NOT TSPC_BasCharSet]		I	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		continue			
19		+localtree1("#")			
20		+localtree1("")			
21		[TSPC_AddCharSet]			4.
22		+localtree1("A")			
23		+localtree1("B")			
24		+localtree1("C")			
25		+localtree1("D")			
26		+localtree			
27		[NOT TSPC_AddCharSet]			5.
28		+localtree			
29		localtree			
30		(TCV_Null := OO_ShortKeyDepr("0"))			
31		L?DL_DatInStartDtmf	StartDTMFRcv( StartDtmf_01( TI_01, "0"))		
32		L!DL_DatRqStartDtmfRej	StartDTMFRejSnd( TCV_chTch, StartDtmfRej_01( TI_02))		
33		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.
34		+PostMainLinkRel(TCV_chTch)			
35		localtree1(character : IA5String)			
36		(TCV_Null := OO_ShortKeyDepr(character), TCV_Char := character)			
37		L?DL_DatInStartDtmf	StartDTMFRcv( StartDtmf_01( TI_01, TCV_Char))		
38		L!DL_DatRqStartDtmfAck	StartDTMFAckSnd( TCV_chTch, StartDtmfAck_01( TI_02, TCV_Char))		
39		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.
40		[TSPX_DTMFInd]			
41		(TCV_Res := OO_DTMFIndCHK(character))			
42	L_046 6	[NOT TCV_Res]		(F)	7.
43		+PostMainLinkRel(TCV_chTch)			
44	L_046 7	[TCV_Res ]		(P)	8.
45		+localtree2			
46		[NOT TSPX_DTMFInd]			
47		+localtree2			
48		localtree2			
49		L?DL_DatInStopDtmf	StopDTMFRcv( StopDtmf_01( TI_01))		
50		L!DL_DatRqStopDtmfAck	StopDTMFAckSnd( TCV_chTch, StopDtmfAck_01( TI_02))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47		+CCstatuschk_05(C_U10, TI_02, TCV_chTch)			6.
<b>Detailed Comments</b> : 1. To setup 2 physical 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						
<b>Test Case Name</b> : TC_26_8_1_4_2_1						
<b>Group</b> : CC/						
<b>Purpose</b> : 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.						
<b>Configuration</b> :						
<b>Default</b> : OtherEventsFail						
<b>Comments</b> :						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1	body	START T_guard(300)			1.	
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			2.	
6		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)				
<b>Detailed Comments</b> : 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCCConfigTCH_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_TmSltDe f) + BIT_TO_INT(TSPX_TmSltNotZero))MOD 8,3))			Make TCV_slt 2 different from TSPX_T mSltDef
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	body	+HalfRateCh_A_2( TSPX_TCHHSubDef, C_Synho, TCV_sl2, 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			4.
13		localtree			
14		(TCV_Tchtype := TCV_chtype)			
15		+PreEnterCCstateU10( TSPX_SDCCH4SubDef, TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TSPX_CKSNDDef, TSPX_RANDDef)			5.
16		(TCV_ch := TCV_chTch)			
17		+AssCmdGen( C_CellA, TCV_ChRate, TCV_sl2, TSPX_TscDef, TSPX_TCHHSubA)			
18		+Adjust_gsmanddcs_powerlvl( 7, 3)			7.
19		+AssCh_complete( TCV_ch, TCV_chTch1, TCV_AssCmd)			
20		+CCstatuschk_05(C_U10, TI_02, TCV_chTch1)			
21		(TCV_Null:=OM_FreeResource(TCV_ch Tch),TCV_sl2:= INT_TO_BIT((BIT_TO_INT(TSPX_TmSl tDef) + BIT_TO_INT(TSPX_TmSlitNotZero1))M OD 8,3))			Use another timeslot different from previous two
22		+CCConfigTCH( TSPX_TCHHSubA, C_Synho, TCV_sl2, 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)			
23		L!DL_DatRqHoCmd			
		L?DL_RacInHoacc			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24	L_046 8	L?DL_RacInHoacc	HndOvAccRcv( TCV_chTch, HandOverAcc_02( TSPX_HoRefA))	(P)	6.  Release the original channel 7.
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?DL_DatInHoCom	HndOvCmpRcv( TCV_chTch, HandOverCmp_01)		
29		L!MDL_RelRq	MDLRelReq(TCV_chTch1)		
30		+CCstatuschk_05( C_U10, TI_02, TCV_chTch)			
31		+PostMainLinkRel(T CV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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			
9		localtree			
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_046 9	L?DL_DatInHofl	HndOvFIRcv( 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, MoblAlc_02, MoblAlc_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)			
20		handover (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			Non-sy nc HO
23		START T_dly(C_T_T3124)			
24	[TSPC_DCS]		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))		
25		L!DL_DatRqHoCmd			Non-sy nc HO
26		START T_dly(C_T_T3124)			
27	L?DL_RacInHoacc	local_hobursts	HndOvAccRcv( TCV_ch1, HandOverAcc_02( TSPX_HoRefB))		
28		?TIMEOUT			
29		(TCV_Res := TRUE)			

### 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	L_047 0	START T_guard(300)		I	not dual mode service
2		[(TSPX_MT_DualModSvc <> C_AltSpchData) OR (TSPX_MT_DualModSvc <> C_SpchData) OR (TSPX_MT_DualModSvc <> C_AltSpchFax)]			
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_CKSNDDef, 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_CKSNDDef, 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		LIDL_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_047 1	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_047 2	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)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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_CKSNDDef, TSPX_RANDDef)			
6		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			
7		LIDL_DatRqChmmo			
			ChmmoReqSnd( TCV_chTch, ChmomoReq_07( TCV_chtype, TCV_ChModb.mode, TSPX_TmSltDef, TSPX_TscDef, TCV_tch_arfcn))		
8	L_047 3	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 :=			
10		OC_RcsdPresent(TCV_Modify))			
11		[TCV_Res]			
		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_047 4	[TCV_Res ]		(P)	3.
22		+PostMainLinkRel(TCV_chTch)			
23	L_047 5	[NOT TCV_Res ]		(F)	
24		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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	body	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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			1.
6		!IDL_DatRqModifyRej			2.
7		+CCstatuschk_05( C_U10, TCV_TI, TCV_chTch)			
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					
<b>Test Case Name</b> : TC_26_8_1_4_5_3					
<b>Group</b> : CC/					
<b>Purpose</b> : 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.					
<b>Configuration</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)			1.  2.  3.
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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			
6		LIDL_DatRqModifyCom			
7		+CCstatuschk_05( C_U26, TCV_TI, TCV_chTch)			
8		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			1.
6	body	LIDL_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					
<b>Test Case Name</b> : TC_26_8_1_4_5_5					
<b>Group</b> : CC/					
<b>Purpose</b> : To verify that upon expiration of T323 the MS shall initiate the procedures for call clearing with cause #102 "recovery on timer expiry".					
<b>Configuration</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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_CKSNDDef, 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_CKSNDDef, 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_047 6	[(TCV_Time < 27000) OR (TCV_Time >= 33000)]		(F)	3.
9		+PostMainLinkRel(TCV_chTch)			
10	L_047 7	[(TCV_Time >= 27000) AND (TCV_Time < 33000)]		(P)	4.
11		+CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)			
12		+PostMainLinkRel( TCV_chTch)			
<b>Detailed Comments</b> : 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 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			1.
7		+local_continue			
8		local_continue			
9		+assign			
10		+CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)			2.
11		(TCV_Res := OC_RcsdPresent(TCV_Modify))			
12		[TCV_Res]  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_sl2, 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_sl2, 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_sl2 := INT_TO_BIT(((1+ BIT_TO_INT(slot))MOD 8),3))			
26		[TCV_ChRate = C_Full]			
27		+FullRateCh_A_2( acttype, TCV_sl2, tsc, chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
28		[TCV_ChRate = C_Half]			
29		+HalfRateCh_A_2( sub, acttype, TCV_sl2, tsc, chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr, cch_con, bpm)			
<b>Detailed Comments :</b> 1. To attempt a dual mode call. 2. To check whether the MS is still in the state U26. 3. To 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	body	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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)				1.
7		+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	HndOvFIRcv( 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
14		local_Hoacc L?DL_RacInHoacc	HndOvAccRcv( TCV_chTch1, HandOverAcc_02( TSPX_HoRefA))		4.
15		(TCV_Cnt := TCV_Cnt +1)			
16		local_sendHoCMD			
17		(TCV_Tchtype := '00001'B)			
18		[TSPC_PGSM OR TSPC_EGSM] L!DL_DatRqHoCmd	HndOvSnd( TCV_chTch, HandOverCmd_nfh( TCV_Tchtype, TSPX_TmSlitC, 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_TmSlitC, 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.
<b>Detailed Comments</b> : 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_CKSNDDef, 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_CKSNDDef, TSPX_RANDDef)			1.
6	body	LIDL_DatRqUndefCC	UndefCC( TCV_chTch, UndefCC_02(TCV_TI))		2.
7	L_047 9	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 transaction identifiers shall be in state U0, "Null".

**Configuration** :

**Default** : OtherEventsFail

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)	RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))		
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH( 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_CKSNDDef, TSPX_RANDDef)			1.
6		+CCstatuschk_05( C_U26, TCV_TI, TCV_chTch)			2.
7		LIDL_DatRqRelCmp			
8		+CheckTlInStateU0( 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_CKSNDDef, 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	body	ACTIVATE( OtherEventsFail_02)	CMSerReq( CMServiceReq_04)		To match ChReq retrans.  Restore Normal default
13		L?DL_EstInCmsRq			
14		ACTIVATE( OtherEventsFail)			
15		+Authentication( TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)			
16		+Cipherring_on( TCV_ch)			
17		+localtree			
		localtree			
18		+RcvSetupOrEsetup( TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
19		L!DL_DatRqCallProc			
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			
23		L!DL_DatRqConn			
24		L?DL_DatInConnAck			
25		+Varinit_fix(C_CellB, C_LAC_2, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TCV_Ccd0B, TSPX_IMSI)			
26		(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_048 0	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_10)	(P)	1.  To match ChReq retrans.
32		ACTIVATE( OtherEventsFail_02)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33		L!DL_UdatRqImm	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, LocArealdei( C_MCC_1, C_PLMN_1, C_LAC_1), TSPX_CKSNDf)		
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_048 1	[NOT TCV_Res ]		(F)	2.
41		+PostMainLinkRel( TCV_chTch1)			
42	L_048 2	[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)			
<b>Detailed Comments</b> : 1. The expected call re-establishment is started. 2. The bearer channel is not through connected, fail.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_26_8_2_2 <b>Group</b> : CC/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_CKSNDDef, TSPX_RANDDef)			
11		+CIPHERING_on( TCV_ch)			
12		+localtree			
13		localtree +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_TmSlitDef, 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_048 3	L?DL_RacInChRq CANCEL T_dly	ChReq( ChRequest_02)	F	2.
23	L_048 4	?TIMEOUT T_dly		P	3.
<b>Detailed Comments</b> : 1. Default parameters, call reestablishment not allowed. 2. Re-establishment is attempted, fail. 3. No re-establishment attempting, pass.					



Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_26_8_2_3 <b>Group</b> : CC/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_CKSNDDef, 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( CMSerReq_04)		
9		ACTIVATE( OtherEventsFail)			Restore Normal default
10		+Authentication( TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)			
11		+Ciphering_on( TCV_ch)			
12		+localtree			
13		localtree +RcvSetupOrEsetup( TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
14		L!DL_DatRqCallProc	CallProc( TCV_ch, TCV_CallProc)		

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15	body	+AssCmdGen( TCV_cellid, TCV_ChRate, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)	AlertSnd( TCV_chTch, Alerting_01(TCV_TI))		
16		+AssCh_complete( TCV_ch, TCV_chTch, TCV_AssCmd)			
17		L!DL_DatRqAlert			
18		(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_048 5	L?DL_RacInChRq CANCEL T_dly	ChReq( ChRequest_02)	F	2.
21	L_048 6	?TIMEOUT T_dly		P	3.
<b>Detailed Comments</b> : 1. Default parameters, reestablishment allowed. 2. Re-establishment is attempted, fail. 3. No re-establishment attempting, pass.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_26_8_3 <b>Group</b> : CC/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
5		+CCCConfigTCH( 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_CKSNDDef)			
7		+Authentication( TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)			
8		+Ciphering_on( TCV_ch)			
9	body	L!DL_DatRqSetup	SetupSnd( TCV_ch, TCV_Setup_mt)		
10	L_048 7	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	L_048 8	+CCAssignTCH( TSPX_TmSltDef, TSPX_TscDef)	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))	(P)	2.
18		L!DL_DatRqConnAck			
19		START T_dly( 30000)	DiscSnd( TCV_chTch, DisconnS( TI_02, Cause_01, ProgInd_omit, UuInfo))		
20		?TIMEOUT T_dly			
21		L!DL_DatRqDisc			
22		L?DL_DatInRel	ReleaseRcv( Release_10( TI_01))		
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	body	START T_guard(300)			1.
2		[TSPC_Serv_TS11]			
3		+BasicServiceMO( C_Telephony, C_Full)			
4		+local_testfullrate			
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	L_048 9	+BasicServiceMO( C_AutoFax, C_Full)			3.
12		+local_testfullrate			
13		[C_Yes]			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14		local_testfullrate +IdleUpdated( C_E_default, C_CellA, 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_MaxPwrLvIG, C_MaxPwrLvID, 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_TmSlitDef, 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			
17		local_testhalfrate +HalfRateCh_A_1( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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			
20		local_initcall (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			
29	L_049 2	localtree 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.

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_049 5	L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))	(P)	Restore Normal default
32		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_04)		
33		ACTIVATE(OtherEventsFail)			
34		L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest( TSPX_CKSNA, TSPX_RANDA))		
35		L?DL_DatInAuthRes(TCV_Sres:=DL_Da tInAuthRes.msg.sres)	AuthRes( AuthResponse)		
36		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
37		+Check_Result			
38		+localtree1			
		localtree1			
39		+Cipherring_on(TCV_ch)			
40		+RcvSetupOrEsetup( TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
41		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
42		+AssCmdGen( TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
43		+AssCh_complete(TCV_ch,TCV_chTch,TCV _AssCmd)			
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_049 7	L?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))	(P)	8.
54		(TCV_Res := OO_TCHThroConnCHK())			
55		+Check_Result			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
56	L_050 0	LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))	(P)	
57		L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))		
58		LIDL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))		
59		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
2		[TSPC_Serv_TS11]			
3		+BasicServiceMO( C_Telephony, C_Full)			
4		+local_testfullrate			
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate ]			
7		+BasicServiceMO( C_Telephony, C_Half)			
8		+local_testhalfrate			
9		[NOT TSPC_DualRate ]			
10		[TSPC_Serv_TS62]			
11		+BasicServiceMO( C_AutoFax, C_Full)			
12		+local_testfullrate			
13	L_050 1	[C_Yes]		I	3.
		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_ImmMass, 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			
17		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			
18		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			
28	L_050 4	localtree 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_UdatRqImmMass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_050 6	L?DL_EstInCmsRq	CMSSerReq( CMSServiceReq_04)	(P)	Restore Normal default
32		ACTIVATE(OtherEventsFail)			
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_050 7	L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)	(F)	
41		L!DL_DatRqAlert	AlertSnd( TCV_ch, Alerting_01( TCV_TI))		
42		[TSPC_AlertInd ]			
43		(TCV_Res := OO_AltIndCHK())			
44		[NOT TCV_Res ]			
45		+localtree2			
46		[TCV_Res ]			
47		+localtree2			
48		[NOT TSPC_AlertInd ]			
49		+localtree2			
	L_050 8	localtree2		(P)	
50		+AssCmdGen( TCV_cellid, TCV_ChRate, TSPX_TmSlitDef, 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?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))		
55		(TCV_Res := OO_TCHThroConnCHK())			
56		+Check_Result			
57		L!DL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
58	L_051 1	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))	(P)	
59		LIDL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))		
60		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1.
2		[TSPC_Serv_TS11]			
3		+BasicServiceMT( C_Telephony, C_Full)			
4		+local_testfullrate			
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey))			2.
6		[TSPC_DualRate]			
7		+BasicServiceMT( C_Telephony, C_Half)			
8		+local_testhalfrate			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9	L_051 2	[NOT TSPC_DualRate ]		I	TS62
10		[TSPC_Serv_TS62]			
11		+BasicServiceMT( C_AutoFax, C_Full)			
12		+local_testfullrate			3.
13		[C_Yes]			
14		local_testfullrate +IdleUpdated( C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immash, 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)			
18		local_testhalfrate +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)			
20		localtree(rate : IA5String)			
21		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
22		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
23		ACTIVATE(OtherEventsFail_02)			
23		L!DL_UdatRqImmash	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		To match ChReq retrans.

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_051 3	[NOT TCV_Res ]		(F)	
30		+PostMainLinkRel( TCV_ch)			
31	L_051 4	[TCV_Res ]		(P)	5.
32		+localtree1( rate)			
33		localtree1(rate : IA5String)			
34		+CIPHERING_on(TCV_ch)			
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		[TSPX_Immconn]			
38		L?DL_DatInConn	ConnRcv( Connect_01( TI_01))		
39		+asstrafficch(rate)			7.
40		+localtree3			
41		[NOT TSPX_Immconn]			
42		+asstrafficch(rate)			7.
43		L?DL_DatInAlert	AlertRcv( AlertingInd_01( TI_01))		
44		(TCV_Res := OO_AltIndCHK())			
45		+Check_Result			
46		(TCV_Null := OO_HookOff())			9.
47		L?DL_DatInConn	ConnRcv( Connect_01( TI_01))		
48		+localtree3			
49		localtree3			
50		[TCV_Setup_mt.bcap1.itc = '000'B]			Speech Call
51		(TCV_Res := OO_TCHThroConnCHK())			
52		+Check_Result			
53		L!DL_DatRqConnAck	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))		
54		+localtree5			
55		[TCV_Setup_mt.bcap1.itc <> '000'B]			Data Call

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	DiscRcv( TCV_chTch, DisconnR( TI_01, Cause_Def))		
58		(TCV_Null := OO_TermCall())			
59		L?DL_DatInDisc			
60		L!DL_DatRqRel			
61		L?DL_DatInRelCmp	ReleaseSnd( TCV_chTch, Release_08( TI_02))  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)			
<b>Detailed Comments</b> : 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. 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	body	START T_guard(300)			1.
2		[TSPC_Serv_TS11]			
3		+BasicServiceMT( C_Telephony, C_Full)			
4		+local_testfullrate			
5		(TCV_Null := OM_CphMd (TCV_ch, CphMod_02, TCV_CphKey), TCV_Null := OM_CphMd (TCV_chTch, CphMod_02, TCV_CphKey))			
6		[TSPC_DualRate ]			2.
7		+BasicServiceMT( C_Telephony, C_Half)			
8		+local_testhalfrate			
9		[NOT TSPC_DualRate ]			TS62
10		[TSPC_Serv_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_052 1	[C_Yes]		I	
14		local_testfullrate +IdleUpdated( C_E_default, C_CellA, 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_MaxPwrLvIG, C_MaxPwrLvID, 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)			
18		local_testhalfrate +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)			
20		localtree(rate : IA5String)			
21		L!DL_UdatRqPg1Rq	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
22		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_17)		
23		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
24		L!DL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
25		L?DL_EstInPgRes	PagingRes( PagingRes_03( TSPX_CKSNA))		
26		ACTIVATE(OtherEventsFail)			Restore Normal default

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_052 2	[NOT TCV_Res ]		(F)	
30		+PostMainLinkRel( TCV_ch)			
31	L_052 3	[TCV_Res ]		(P)	5.
32		+localtree1( rate)			
33		localtree1(rate : IA5String)			
34		+Cipherring_on(TCV_ch)			
35		( TCV_Setup_mt.sig := Signal_01)			
36		L!DL_DatRqSetup	SetupSnd(TCV_ch, TCV_Setup_mt)		6.
37		L?DL_DatInCallCo ( TCV_CallCfm := DL_DatInCallCo.msg)	CallCfm( CallConfirm_01( TI_01))		
38		L?DL_DatInConn	ConnRcv( Connect_01( TI_01))		
39		+localtree2( rate)			
40		L?DL_DatInAlert	AlertRcv( AlertingInd_01( TI_01))		
41		(TCV_Res := OO_AltIndCHK())			
42		+Check_Result			
43		(TCV_Null := OO_HookOff())			9.
44		L?DL_DatInConn	ConnRcv( Connect_01( TI_01))		
45		+localtree2( rate)			
46		localtree2(rate : IA5String)			
47		+AssCmdGen( TCV_cellid, rate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
48		+AssCh_complete( TCV_ch, TCV_chTch, TCV_AssCmd)			
49		+localtree3			
50		localtree3			
51		[TCV_Setup_mt.bcap1.itc = '000'B]			
52		(TCV_Res := OO_TCHThroConnCHK())			
53		+Check_Result			
54		L!DL_DatRqConnAck	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))		
55		+ltree_clearCall			
56		[TCV_Setup_mt.bcap1.itc <> '000'B]			
57		L!DL_DatRqConnAck	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))		
58		(TCV_Res := OO_TCHThroConnCHK())			
59		+Check_Result			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
57		+ltree_clearCall			
58		ltree_clearCall			
		L!DL_DatRqDisc	DiscSnd(TCV_chTch, DisconnS(TI_02,Cause_01, ProgInd_omit, UuInfo_omit))		
59		L?DL_DatInRel	ReleaseRcv(Release_10(TI_0 1))		
60		L!DL_DatRqRelCmp	RelComSnd(TCV_chTch,Rel easeCmp_08(TI_02))		
61		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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_053 0	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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
8	L_053 1	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			
13		local_continue (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))			
14	L_053 2	[NOT TCV_Res ]		(F)	4.
15		+PostMainLinkRel(TCV_ch)			
16	L_053 3	[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_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			
23		+AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)			
24		+local_continue1			
25		local_continue1 L!DL_DatRqConn	ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
26	L_053 4	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))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
30	L_053 7	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))	(P)	9.
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]			
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)				
<b>Detailed Comments :</b> 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_053 8	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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( TSPX_TimadvA)))		
9	L_053 9	L?DL_EstInCmsRq	CMSerReq( CServiceReq_06( TSPX_CKSNA))	(P)	3.
10		ACTIVATE(OtherEventsFail)			Restore Normal default
11		+Authentication(TCV_ch, TSPX_CKSNA, TSPX_RANDA)			
12	L_054 0	[NOT TCV_Res ]		(F)	4.
13		+PostMainLinkRel( TCV_ch)			
14	L_054 1	[TCV_Res ]		(P)	5.
15		+Cipherring_on(TCV_ch)			
16		+local_continue1			
17		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			
24		local_continue2			
24		L!DL_DatRqConn	ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
25	L_054 2	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_054 5	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))	(P)	
30		L!DL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))		
31		+PostMainLinkRel(TCV_chTch)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		local_nonpreferred_rate			
33		(TCV_Rchr := TCV_Setup_mo1.bcap1.rchr)			
34		[TCV_Rchr = '10'B]			7.
		+FullRateCh_A_1(C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, 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)			
<b>Detailed Comments :</b> 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_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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			1.
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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			
11	body	body			
12	L_054 6	+InitCall(TCV_Service) L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE( OtherEventsFail_02)	ChReq( ChRequest_16)	(P)	2.
13					To match ChReq retrans.
14		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
15	L_054 7	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			
19		local_continue +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			
25		local_continue1 L!DL_DatRqConn	ConnSnd( TCV_chTch, Connect_02( TCV_TI))		
26	L_054 8	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, Proglnd_omit, UuInfo_omit))		
30	L_055 1	L?DL_DatInRel	ReleaseRcv( Release_10( TCV_TI0))	(P)	
31		L!DL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
32		L!DL_DatRqChRel	ChRel( TCV_chTch, ChRelease_01)		
33	L_055 2	L?DL_Relln	DLRellnd_01	(P)	8.
<b>Detailed Comments</b> : 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 from the MS.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDDef, 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		+local_continue			
10		local_continue	ChReq( ChRequest_16)	(P)	2.
11	L_055	+InitCall(TCV_Service)			
12	3	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)  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_055 4	L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))	(P)	3.  Restore Normal default
14		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_07)		
15		ACTIVATE(OtherEventsFail)			
16		L!DL_DatRqCmsRej	CMSerRej(TCV_ch, CMServiceRej_02)		
17		START T_dly(5000)			
18		?TIMEOUT T_dly			
19		+PostMainLinkRel(TCV_ch)			
20		START T_dly(20000)			
21		?TIMEOUT T_dly			
<b>Detailed Comments :</b> 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					
<b>Test Case Name</b> : TC_26_10_2_1 <b>Group</b> : EGSMsignalling/ <b>Purpose</b> : To verify that the MS reports appropriate results when the test system gives information about neighbouring cells <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDf, 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_TmSlitDef, 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		+PreEnterCCstateU10_r01( TimingAdv( 30), TSPX_SDCCH4SubA, 7, 3, TSPX_CKSNDf, TSPX_RANDDef, TSPX_TmSlitDef, 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_CKSNDf, 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))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
43		[TCV_Cnt = 5]	SysInfo5( TCV_sacch, SysInf5( BcchFreqLst_e205))  SysInfo5bis( TCV_sacch, SysInf5bis( BcchFreqLst_e211))  SysInfo5( TCV_sacch, SysInf5( BcchFreqLst_e206))  SysInfo5bis( TCV_sacch, SysInf5bis( BcchFreqLst_e212))		
44		L!DL_UdatRqSysinfo5			
45		L!DL_UdatRqSysinfo5bis			
46		[TCV_Cnt = 6]			
47		L!DL_UdatRqSysinfo5			
48		L!DL_UdatRqSysinfo5bis			
49		local_MsrReptCHK(in1, in2 : INTEGER) (TCV_Res := OC_MsrReptChk(TCV_MsrRes, in1))			
50		[NOT TCV_Res]			
51		[TCV_Res ]			
52		ltree_receiveMsrRept			
53	[TCV_Cnt = 1] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_03e( MsrResult_03e1))			
54	[TCV_Cnt = 2] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_03e( MsrResult_03e2))			
55	[TCV_Cnt = 3] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_03e( MsrResult_03e3))			
56	[TCV_Cnt = 4] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_03e( MsrResult_03e4))			
57	[TCV_Cnt = 5] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_03e( MsrResult_03e5))			
58	[TCV_Cnt = 6] L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)	MsrRept( MsrReport_04e)			
59	ltree_receiveMsrRept2				
60	[TCV_Cnt = 1] ?TIMEOUT T_dly1				
61	+PostMainLinkRel(TCV_chTch)				
62	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_03e( MsrResult_03e1))			
63	[TCV_Cnt = 2] ?TIMEOUT T_dly1				
64	+PostMainLinkRel(TCV_chTch)				
65		[TCV_Cnt = 2] ?TIMEOUT T_dly1		(F)	1.
66		+PostMainLinkRel(TCV_chTch)			
67		[TCV_Cnt = 2] ?TIMEOUT T_dly1		(F)	1.
68		+PostMainLinkRel(TCV_chTch)			
69		[TCV_Cnt = 2] ?TIMEOUT T_dly1		(F)	1.
70		+PostMainLinkRel(TCV_chTch)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
71	L_055 9	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_03e( MsrResult_03e2))	(F)	1.
72		[TCV_Cnt = 3]			
73		?TIMEOUT T_dly1			
74		+PostMainLinkRel(TCV_chTch)			
75	L_056 0	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_03e( MsrResult_03e3))	(F)	1.
76		[TCV_Cnt = 4]			
77		?TIMEOUT T_dly1			
78		+PostMainLinkRel(TCV_chTch)			
79	L_056 1	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_03e( MsrResult_03e4))	(F)	1.
80		[TCV_Cnt = 5]			
81		?TIMEOUT T_dly1			
82		+PostMainLinkRel(TCV_chTch)			
83	L_056 2	L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_03e( MsrResult_03e5))	(F)	1.
84		[TCV_Cnt = 6]			
85		?TIMEOUT T_dly1			
86		+PostMainLinkRel(TCV_chTch)			
87		L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1	MsrRept( MsrReport_04e)		
88		ltree_StartMultiCells			
89		[TCV_Cnt = 0]			
90		[TCV_Cnt = 1]			
91		+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)			
92		[TCV_Cnt = 2]			
93		+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]			

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)			
<b>Detailed Comments</b> : 1. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_26_10_2_2 <b>Group</b> : EGSMsignalling/ <b>Purpose</b> : To verify that the MS can correctly set up a dedicated control channel when E-GSM frequencies are used. <b>Configuration</b> : <b>Default</b> : OtherEventsFail_01 <b>Comments</b> :					
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_CKSNDDef, TSPX_RANDDef, C_arfcn_1015, C_arfcn_1015, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_Cnt:= 1)			
4	body	REPEAT localtree_body UNTIL [TCV_Cnt =3]			
5		localtree_body			
6		+localtree_config			
7		+Wait(C_T_Wait1)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) ChReq( ChRequest_17)		
8		L!DL_UdatRqPg1Rq			
9		L?DL_RacInChRq ( TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)			
10	L_056 3	+ltree_send_immass	PgRes( TCV_ch, PagingRes_01)	(P)	To match ChReq retrans.  Restore Normal default
11		L?DL_EstInPgRes			
12		ACTIVATE(OtherEventsFail_01)			
13		+ChanRel(TCV_ch)			
14		(TCV_Null := OM_FreeResource(TCV_ch), TCV_Cnt := TCV_Cnt + 1)			
15		localtree_config [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		LIDL_UdatRqlImmass	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		LIDL_UdatRqlImmass	ImmAss( TCV_agch, ImmAsgn_E_02( TCV_Rr, TCV_Fn, TCV_ia_ts, TSPX_TscDef, TimingAdv( 0)))		2)
<b>Detailed Comments</b> : 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSlitA, TCV_Cnt := 1, TCV_chdescr_arfcn := C_arfcnC)			
4	body	REPEAT localtree_body UNTIL [TCV_Cnt =3]			
5		localtree_body +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		LIDL_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		LIDL_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)		Restore Normal default
14		ACTIVATE(OtherEventsFail)			
15		+ltree_chtype			
16		+ltree_send_ch_assign			
17		+ChanRel(TCV_chTch)			
18		(TCV_Null := OM_FreeResource(TCV_chT ch), TCV_Cnt := (TCV_Cnt + 1))			Loop for K
19		+Wait(C_T_Wait1)			
20		ltree_chtype			
21		[TSPC_SvcOnTCH]			for TCH
22		(TCV_chtype := '00001'B)			
23		[NOT TSPC_SvcOnTCH]			
24		(TCV_chtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubA)), 5))			for SDCCH 8
25		ltree_send_ch_assign			
26		[TCV_Cnt = 1]			
27		(TCV_asscmd_ts := INT_TO_BIT( (( BIT_TO_INT( TSPX_TmSlitA) + 1) MOD 8), 3), TCV_Cnt1 := 1)			
28		REPEAT ltree_assign1 UNTIL [TCV_Cnt1 = 7]			
29		[TCV_Cnt = 2]			
30		(TCV_Cnt1 := 1)			
31		REPEAT ltree_assign2 UNTIL [TCV_Cnt1 = 7]			
32		ltree_assign1			
33		+ltree_assign1_setup			1)
34		+ltree_chnassign1			
35		(TCV_AssCmd := AsgnCmd_22_Ae1( TCV_asscmd_ts, TCV_chtype, TCV_flist, TCV_flistl, TCV_n))			
36		+AssCh_complete( TCV_ch, TCV_chTch, TCV_AssCmd)			6)
37		START T_dly(500)			
38		?TIMEOUT T_dly			
39		(TCV_Cnt1 := (TCV_Cnt1 + 1), TCV_Null := OM_FreeResource(TCV_ch), TCV_ch := TCV_chTch)			Loop for C
40		ltree_assign2			
41		+ltree_assign2_setup			
42		+ltree_asscmdsending			
43		START T_dly(500)			6)
44		?TIMEOUT T_dly			
45					
46					



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)

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]			

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]			

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)			
<b>Detailed Comments</b> : 1) Assignment Command without Cell Channel Description IE 2) Assignment Command with Cell Channel Description IE 3) Length of mobile allocation 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
5		(TCV_ia_ts:=TSPX_TmSlitNotZero)			
6		+local_continue			
7		local_continue			
8		(TCV_sysinfo5bis_A := TCV_sysinfo5bis)			
9		+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)			TCV_ch
		+SDCCH8_A_1_nociph( TSPX_SDCCH8SubDef, C_Immass, TSPX_TmSlitNotZero, TCV_tsc, ChMod_sign, FreqTCH(TSPX_SDCCHcarrierA_ho), FreqTCH_omit, TimingAdv( 30), C_BABR_0, C_cch_1nonComb, C_BPM_3)			

Continued on next page

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	body	(TCV_sacchTch2 := TCV_sacch8)			Loop of k = 1 to 3
11		+SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis_A)			
12		(TCV_counter_k :=1, TCV_ch1 := TCV_ch, TCV_tch_arfcn := TSPX_SDCCHcarrierA_ho)			
13		+ltree_chtype			Loop of c = 1 to 6
14		REPEAT local_body UNTIL [TCV_counter_k =4]			
15		local_body (TCV_counter_c :=1)			
16		REPEAT ltree_execloopC UNTIL [TCV_counter_c=7]			
17		(TCV_counter_k := (TCV_counter_k +1))			PhyInfo_01(TCV_ch, TimingAdv(20))  SetupRcv( SetupInd_01)
18		ltree_execloopC			
19		[(TCV_counter_k <>1) OR (TCV_counter_c<>6)]			
20		+ltree_chconfig +Est_MO_Call_init( C_CHSDCCH8_NonFH, MoblAllc_01, MobilAllc_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			
28		+RR_hocompE(TCV_M, TCV_chTch1, TCV_chtype)			
29		L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)			
30		+SendSeqNo_chk			
31		+ChanRel_02(TCV_ch)			
32		+Switchcell(C_CellB, C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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		

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)			
38		ltree_chtype			
39		[TSPC_Serv_TS11 OR TSPC_Serv_TS12]			TCH
40		(TCV_chtype := '00001'B, TCV_M := 500, TCV_Cntref:= TSPX_NoOfHoAccA)			
41		[(NOT TSPC_Serv_TS11) AND (NOT TSPC_Serv_TS12)]			SDCCH 8
42		(TCV_chtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)),5), TCV_M :=750, TCV_Cntref:= TSPX_NoOfHoAccI)			
43		ltree_hocmd			
44		[TCV_counter_k = 1]			for k = 1
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_short( TCV_flist), Frql_omit, CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
46		[TCV_counter_k = 2]			for k = 2
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( TCV_flist, TCV_flistl), CellChDes_Omit, TCV_ChMod, Freqchseq_omit, MoblAllc_omit, RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		

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_TmSlitNotZero1, 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_mae1, TCV_mae1), RelTmdDif_omit, TimingAdv_omit, CphMod_omit))		
48		ltree_chconfig			
49		+local_setHoppingPara			
50		+local_configChOfCellB			
51		local_setHoppingPara			
52		[TCV_counter_k = 1]			
53		[TCV_counter_c = 1]			
54		(TCV_flist := C_flist_e_401s, TCV_flistl:= '09'O, TCV_mae1:= '00000111'B, TCV_n := 3)			k =1 and c =1
55		[TCV_counter_c = 2]			
56		(TCV_flist := C_flist_e_402s, TCV_flistl:= '09'O, TCV_mae1:= '00011111'B, TCV_n := 5)			k =1 and c =2
57		[TCV_counter_c = 3]			
58		(TCV_flist := C_flist_e_403s, TCV_flistl:= '09'O, TCV_mae1:= '00001111'B, TCV_n := 4)			k =1 and c =3
59		[TCV_counter_c = 4]			
60		(TCV_flist := C_flist_e_404s, TCV_flistl:= '09'O, TCV_mae1:= '00001111'B, TCV_n := 4)			k =1 and c =4
61		[TCV_counter_c = 5]			
62		(TCV_flist := C_flist_e_405s, TCV_flistl:= '09'O, TCV_mae1:= '00111111'B, TCV_n := 6)			k =1 and c =5
63		[TCV_counter_k = 2]			
64		[TCV_counter_c = 1]			
65		(TCV_flist := C_flist_e_401, TCV_flistl:= '05'O, TCV_mae1:= '00000111'B, TCV_n := 3)			k =2 and c = 1
66		[TCV_counter_c = 2]			
67		(TCV_flist := C_flist_e_402, TCV_flistl:= '06'O, TCV_mae1:= '00011111'B, TCV_n := 5)			k =2 and c = 2
68		[TCV_counter_c = 3]			
69		(TCV_flist := C_flist_e_403, TCV_flistl:= '06'O, TCV_mae1:= '00001111'B, TCV_n := 4)			k =2 and c = 3
70		[TCV_counter_c = 4]			



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]			

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)			
<b>Detailed Comments</b> : 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 target in 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_TmSlitNotZero, TCV_ts:= TSPX_TmSlitNotZero1, 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_CKSNDf, 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			
9		ltree_body (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)			

Continued on next page

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, MoblAlc_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	HndOvFIRcv( TCV_ch, HandOvFail_02)		
19		(TCV_L1Head := OM_GetL1Hd(TCV_sacch))			
20	L_056 4	[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_056 5	?TIMEOUT T_dly		(F)	
25		+ChanRel(TCV_chTch)			
26		ltree_configTchA (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))			
30		ltree_configTchB (TCV_chTch := C_FACCHF_B_1, TCV_sacchTch := C_SACCHF_B_1, TCV_chtype := '00001'B)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		+Config_FACCHF_B_1( 63, BIT_TO_INT(TCV_PwrIvl_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)			
<b>Detailed Comments</b> : 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 frequencies 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_egsm, C_NCCP_2)			
3		(TCV_ia_ts:= TSPX_TmSlitNotZero)			
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), MoblAlIc_04man, '01'O))		
12		L?DL_EstInPgRes	PgRes( TCV_ch, PagingRes_01)		
13		ACTIVATE(OtherEventsFail)			Restore Normal default
14		+ltree_setFreqRedefPara			

Continued on next page

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_c h))			
		ltree_checkchnafterfreqred			
21		[(TCV_Cnt1 = 4) OR (TCV_Cnt1 = 6)]			Ma1)
22		(TCV_Res := OM_FHCHK( TCV_ch, CellChDes_20_Be( TCV_cchdescr), MobiAllc_20_Be1 (TCV_mae1), TCV_chd1, 100, TCV_Fn))			
23	L_056 6	[NOT TCV_Res ]		(F)	
24	L_056 7	[TCV_Res ]		(P)	
25		[(TCV_Cnt1 <> 4) AND (TCV_Cnt1 <> 6)]			Ma2)
26		(TCV_Res := OM_FHCHK( TCV_ch, CellChDes_20_Be( TCV_cchdescr), MobiAllc_20_Be2( TCV_mae1, TCV_mae2), TCV_chd1, 100, TCV_Fn))			
27	L_056 8	[NOT TCV_Res ]		(F)	
28	L_056 9	[TCV_Res ]		(P)	
		ltree_LowerTestorManage			
29		(TCV_Fn := OM_ComingFn( TCV_ch), TCV_chd1 := ChDescrp_fh( TCV_chtype, TSPX_TmSlitNotZero1, TSPX_TscDef, INT_TO_BIT((TSPX_MAI0 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, MobiAllc_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, MobiAllc_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		!IDL_DatRqFrqre	FrqRedfSnd( TCV_ch, FreqRedef_20( TCV_ia_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_Strt, TCV_n))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37		[TCV_Cnt1 <= 4]			Ma2)
38		LIDL_DatRqFrqre	FrqRedfSnd( TCV_ch, FrqRedef_22( TCV_ia_ts, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_mae2, TCV_Strt, TCV_n))		
39		[TCV_Cnt1 = 6]			Ma1)
40		LIDL_DatRqFrqre	FrqRedfSnd( TCV_ch, FrqRedef_21( TCV_ia_ts, TCV_chtype, TCV_mae1, TCV_Strt, TCV_n))		
		ltree_setFrqRedefPara			
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, Frq_rg8, Frq_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, Frq_rg8, Frq_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	
<b>Detailed Comments</b> : 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 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 L 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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)		To match ChReq retrans.
10		ACTIVATE( OtherEventsFail_02)			
11		L!DL_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_27( TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv( 0)))		Restore Normal default
12		L?DL_EstInCmsRq	CMSerReq( CMSerReq_01)		
13		ACTIVATE( OtherEventsFail)			
14		+Authentication( TCV_ch, TCV_cksn, TSPX_RANDDef)			
15		+Cipherring_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))		

Continued from previous page

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 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, 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		(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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_Omit, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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_057 0	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	L_057 1	ACTIVATE( OtherEventsFail_02)	ImmAss( TCV_agch, ImmAsgn_27( TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv( 0)))  CMSerReq( CMServiceReq_06( TSPX_CKSNDf))	(P)	To match ChReq retrans.  3.  Restore Normal default
10		L!DL_UdatRqImmss			
11		L?DL_EstInCmsRq			
12		ACTIVATE( OtherEventsFail)			
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_057 2	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, Proglnd_omit, UuInfo_omit))	(P)		
27	L_057 5	L?DL_DatInRel			
28		L!DL_DatRqRelCmp			
		RelComSnd( TCV_chTch, ReleaseCmp_08( TCV_TI))			
29		+PostMainLinkRel(TCV_chTch)			
		local_TrafficChConf			
30		[TCV_ChRate = C_Full]			

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.
<b>Detailed Comments :</b> 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		+part1			
4		+part2			
5		part1 (TCV_Null := OO_InitSS("***61*00431234*11*5#"))			2. internati onal prefix + Country code
6		+ChannelReqtree			
7		+localtree			
8		+Checktree(C_RegCFNRy)			
9		part2 (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.
15		localtree1 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.
17		ChannelReqtree 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_UdatRqImmss	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( CMSerReq_08)		
21		ACTIVATE(OtherEventsFail)			Restore Normal default
22		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMSerReq_01)		
		Checktree(par : INTEGER)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23	L_057 6	(TCV_Res := OO_SSresultCHK(par))		(P)	3.
24		[TCV_Res ]			
25		+PostMainLinkRel(TCV_ch)			
26	L_057 7	[NOT TCV_Res ]		(F)	4.
27	+PostMainLinkRel(TCV_ch)				
<b>Detailed Comments</b> : 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(invoked\_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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, 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. internati onal prefix + Country code
7		+part1			
8		(TCV_Null := OO_InitSS( ***002*00431234*13#"))			4. internati onal prefix + Country code
9		+part2			
10		part1 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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].regis terSSComponents.registerSS_InvokeComp.i nvokeID, 1))			
14		+localtree			
15		localtree L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( RegisterSSErr_01( TCV_Invkld))))		
16		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
17	L_057 8	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
18		part2 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)))		

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].regis terSSComponents.registerSS_InvokeComp.i nvokelD, 1))			
22		+localtree1			
23		localtree1 L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( RegisterSSRej_01( TCV_InvkId))))		
24		(TCV_Res := OO_SSresultCHK(C_RegCF))			
25	L_057 9	[TCV_Res]		(P)	
26		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
27	L_058 0	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
28		+PostMainLinkRel(TCV_chTch)			
29	L_058 1	[NOT TCV_Res]		(F)	
30		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
31	L_058 2	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
32		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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			
7		part1 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		LIDL_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	CMSSerReq( CMSServiceReq_08)		Restore Normal default
11		ACTIVATE(OtherEventsFail)			
12		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_01)		
13		+localtree			
14		localtree 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].eraseSSC omponents.eraseSS_InvokeComp.invokeId, 1))	Register_03( RegisterPdu_03( facilityIErcviei( EraseSS_01)))		4.
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndiei( EraseSSRsIt_01( TCV_InvkId)))		
16		+Checktree(C_ErsCFC)			
17		part2 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	CMSSerReq( CMSServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			
22		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_01)		Restore Normal default
23		+localtree1 localtree1			

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.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)			
27		Checktree(par : INTEGER)			
28	L_058 3	(TCV_Res := OO_SSresultCHK(par)) [TCV_Res ]		(P)	6.
29		+PostMainLinkRel(TCV_ch)			
30	L_058 4	[NOT TCV_Res ]		(F)	7.
31		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments :</b> 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_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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH_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	L_058 5	+part2	CMSerDatReq( CMServiceReq_08)  CMSerAcp( TCV_chTch, CMServiceAcp_01)	(P)	
10		part1			
11		L?DL_DatInCmsRq			
12		L!DL_DatRqCmsAcp			
13		+localtree			
14		localtree			
15		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].eraseSSC omponents.eraseSS_InvokeComp.invokeID, 1))			
16		L!DL_DatRqRelCmp			
17		L!DL_DatRqCcstEnq			
18		L?DL_DatInCcst			
19		part2			
20		L?DL_DatInCmsRq			
21		L!DL_DatRqCmsAcp			
22		+localtree1			
23		localtree1			
24		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].eraseSSC omponents.eraseSS_InvokeComp.invokeID, 1))			
25	L_058 6	L!DL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( EraseSSErr_01( TCV_InvkId)))	(P)	
26		(TCV_Res := OO_SSresultCHK(C_ErsCFNRy)) [TCV_Res]			
27		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25	L_058 7	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
26		+PostMainLinkRel(TCV_chTch)			
27	L_058 8	[NOT TCV_Res]		(F)	
28		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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		LIDL_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	CMSSerReq( CMSServiceReq_08)		Restore Normal default
11		ACTIVATE(OtherEventsFail)			
12		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_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.activateS SComponents.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	CMSSerReq( CMSServiceReq_08)		
21		ACTIVATE(OtherEventsFail)			
22		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_01)		Restore Normal default
23		+localtree1			
		localtree1			

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_058 9	[TCV_Res ]		(P)	
29		+PostMainLinkRel(TCV_ch)			
30	L_059 0	[NOT TCV_Res ]		(F)	
31		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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			
7		part1 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		LIDL_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)		Restore Normal default
11		ACTIVATE(OtherEventsFail)			
12		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
13		+localtree			
14		localtree 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.deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03( RegisterPdu_03( facilityIErcviei( DeactivateSS_01)))		To match ChReq retrans.
15		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndiei( DeactivateSSRsIt_01( TCV_InvkId))))		
16		+Checktree(C_DeactCFC)			
17		part2 L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)		
18		ACTIVATE(OtherEventsFail_02)			
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)			
22		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
23		+localtree1 localtree1			



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( DeactivateSSRsIt_02( TCV_InvkId)))		5.
26		+Checktree(C_DeactCFNRc)			
27		Checktree(par : INTEGER)			
28	L_059 1	(TCV_Res := OO_SSresultCHK(par)) [TCV_Res ]		(P)	6.
29		+PostMainLinkRel(TCV_ch)			
30	L_059 2	[NOT TCV_Res]		(F)	
31		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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			
7		part1 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		LIDL_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)		Restore Normal default
11		ACTIVATE(OtherEventsFail)			
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.interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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)			
22		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
23		+localtree1			Restore Normal default
		localtree1			

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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelID, 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_059 3	[TCV_Res ]		(P)	
29		+PostMainLinkRel(TCV_ch)			
30	L_059 4	[NOT TCV_Res ]		(F)	
31		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments :</b> 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 establishment 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(invoked\_problem) where invoked\_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_CKSNDDef, 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			
10		part1 L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
12		+localtree			
13		localtree 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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_059 5	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
17		part2 L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
18		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
19		+localtree1			
20		localtree1 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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)			
23		Checktree(par : INTEGER) (TCV_Res := OO_SSresultCHK(par))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24	L_059 6	[TCV_Res]	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))  CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
25		L!DL_DatRqCcstEnq			
26	L_059 7	L?DL_DatInCcst			
27		+PostMainLinkRel(TCV_chTch)			
28	L_059 8	[NOT TCV_Res]	(F)		
29		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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	body	START T_guard(300)			Paging
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_CKSNDDef, 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))			
6		L!DL_DatRqSetup			
7		+AssCmdGen( TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
8		L?DL_DatInCallCo			
9		+ltree_connectTch			
10		ltree_connectTch			
11		[TSPX_Immconn]			
12		L?DL_DatInConn			
		+AssCh_complete( TCV_ch, TCV_chTch, TCV_AssCmd)			

Continued on next page



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_059 9	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_060 0	[TCV_Res ]		(P)	Notified
24		+ltree_U10			
25	L_060 1	[NOT TCV_Res]		(F)	Not notified
26		+ltree_U10			
27		ltree_U10 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_060 2	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_060 3	[TCV_Res ]		(P)	Notified
35	L_060 4	[NOT TCV_Res]		(F)	Not notified
<b>Detailed Comments</b> : 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_CKSNDDef, 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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		Restore Normal default
9		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_01)		
10		ACTIVATE( OtherEventsFail)			
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_TmSlitDef, 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)))		
18		(TCV_Res := OO_SSresultCHK(C_NotifyCFU))			
19	L_060 5	[TCV_Res ]		(P)	
20		+localtree			
21	L_060 6	[NOT TCV_Res]		(F)	
22		+localtree			
		localtree			
23		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		3.
24	L_060 7	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)))		
26		L?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))		
27		(TCV_Res := OO_SSresultCHK(C_NotifyCFC))			

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			
32		localtree1 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)			
<b>Detailed Comments</b> : 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_CKSNDf, 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_061 1	L!DL_DatRqCcstEnq	CCStESnd( TCV_ch, CCStatusEq_01( TI_02))	(P)	
13		L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TI_01, C_U6))		
14		(TCV_Res := OO_SSresultCHK( C_NotifyCFNRc))			
15	L_061 2	[TCV_Res ]		(P)	
16	L_061 3	+localtree		(F)	
17		[NOT TCV_Res ]			
18		+localtree			
19		localtree			
19		L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_08( TI_02))		
20		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments</b> : 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_CKSNDDef, 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_TmSlitDef, 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_TmSlitDef, 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_061 4	[TCV_Res]		(P)	
28	L_061 5	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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 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	body	START T_guard(1800)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		(TCV_Null := OO_ACMReading())			
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		+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	L_061 6	+PreEnterCCstateU8_34_SS	FacilitySnd( TCV_chTch, FacilityPdu_25( TI_02, facilityIEtsnd( comp)))	(P)	2.
12		LIDL_DatRqFac START T_dly(90000), START T_dly1(10000)			
13		L?DL_DatInFac ( TCV_Fn1 := DL_DatInFac.fn) CANCEL T_dly1			
14		(TCV_Fn := OM_ReturnFn( TCV_chTch))			
			FacilityRcv( FacilityPdu_26( TI_01, facilityIErcv( FwdChAdvRslt_01)))		6.
					5.

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15	L_061 7	L!DL_DatRqConnAck	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))	(F)	3.
16		+Check_Time(C_T_Wait_FAC)			
17		+post( para)			
18		?TIMEOUT T_dly1			
19		+PostLinkRelEnd( TCV_chTch)			
20		post(para : IA5String)			
21		?TIMEOUT T_dly			
22	L_061 8	L!DL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TI_02, Cause_01, Proglnd_omit, UuInfo_omit))	(P)	4.
23		L?DL_DatInRel			
24		L!DL_DatRqRelCmp			
25		+PostMainLinkRel(TCV_chTch)			
26		(TCV_Res := OO_ACMIncCHK(para))			
27		[TCV_Res]			
28		[NOT TCV_Res]			
<b>Detailed Comments :</b> 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_CKSNDDef, 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			
7		ltree_body			
8		+InitCall(TCV_Service)			
9		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_15)		
10		ACTIVATE( OtherEventsFail_02)			To match ChReq retrans.
		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	CMSSerReq( CMSServiceReq_01)		Restore Normal default
12		ACTIVATE( OtherEventsFail)			
13		L!DL_DatRqCmsAcp	CMSSerAcp( TCV_ch, CMSServiceAcp_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, Proglnd_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			
28		localtree( comp : Component_T; t : INTEGER) 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)			2.
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)))		(P)
32	L_104 6	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)))		
33		+Check_Time(C_T_Wait_FAC)			(F)
34		?TIMEOUT T_dly			
35	L_104 7	?TIMEOUT T_dly1			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
36		CANCEL T_dly			
37		+PostLinkRelEnd( TCV_chTch)			
38		post			
39	L_062 0	(TCV_Res := OO_ACMIncCHK("65")) [TCV_Res]		(P)	3.
40	L_062 1	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_062 2	[TCV_Res]		(P)	
22	L_062 3	[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_UdatRqImm	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( CMSerReq_01)		
28		ACTIVATE( OtherEventsFail)			Restore Normal default
29		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMSerAcp_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))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
37		+branch			
38		?TIMEOUT T_dly			
39	L_062 4	branch 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_062 5	L?DL_DatInFac	FacilityRcv( FacilityPdu_26( TCV_TI0, facilityIErcv( FwdChAdvRslt_01)))	(P)	3.
<b>Detailed Comments :</b> 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			
7		+localtree			
8		localtree +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( CMSerDatReq_01)		
14		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMSerDatReq_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			
21		localtree1			
22		?TIMEOUT T_dly2			
23		+releasecall( TCV_TI2)			4.
24		?TIMEOUT T_dly			
25		+releasecall( TCV_TI)			5.
26		+releaselink releasecall(ti : TI) 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))		
29		releaselink			
30		+PostMainLinkRel( TCV_chTch) (TCV_Res := OO_ACMIncCHK("54"))			6.
31	L_062 6	[TCV_Res]		(P)	
32	L_062 7	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_CKSNDDef, 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( CMSerServiceReq_01)		
14		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMSerServiceAcp_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			
21		localtree1			
22		(TCV_Null := OO_MptyCall()) ACTIVATE (DTMFsig, OtherEventsFail)			5. 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_Inv okeComp.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_Inv okeComp.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			
27		ltree_release 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)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31		?TIMEOUT T_dly			
32		+releasecall(TCV_TI)			
33		+releaselink			
34		releasecall(ti: TI) 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_062 8	[TCV_Res]		(P)	
40	L_062 9	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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	body	START T_guard(300)			1. 2.           3.
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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())			
6		+EstablishFacMO( 90000, FwdChAdvSS_19, TSPX_SDCCH4SubDef, TSPX_TmSlTDef, TSPX_TscDef, TSPX_TCHHSubDef)			
7		+localtree			
8		localtree			
9		?TIMEOUT T_dly			
10		START T_dly(60000)			
11		(TCV_Null := OO_SIMRmv())			
12		L?DL_DatInDisc CANCEL T_dly			
13		L!DL_DatRqRel			
14		L?DL_DatInRelCmp			
15		+PostMainLinkRel(TCV_chTch)			
	+localtree1				
		DiscRcv( TCV_chTch, DisconnR( TCV_TI0, Cause_Def))			
		ReleaseSnd( TCV_chTch, Release_03( TCV_TI))			
	L_063 0	RelComRcv( ReleaseCmp_03( TCV_TI0))	(P)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
16	L_063 1	L?DL_DatInRelCmp CANCEL T_dly	RelComRcv( ReleaseCmp_03( TCV_TI0))	(P)	4.
17		+PostMainLinkRel(TCV_chTch)			
18		+localtree1			
19	L_063 2	L?DL_RelIn CANCEL T_dly	DLRelInd_01	(P)	
20		+localtree1			
21	L_063 3	?TIMEOUT T_dly		(F)	
22		+PostLinkRelEnd(TCV_chTch)			
23		localtree1 (TCV_Res := OO_ACMIncCHK("30"))			
24	L_063 4	[TCV_Res]		(P)	
25	L_063 5	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_CKSNDDef, 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		execution1			
9		+main			
10		(TCV_Null := OO_SwitchOff())			3.
11	L_063 6	(TCV_Res := OO_ACMIncCHK("30")) [TCV_Res]		(P)	4.
12	L_063 7	[NOT TCV_Res]		(F)	
13		execution2			
14		(TCV_Null := OO_SwitchOn())			5.
15		START T_dly(20000)			
16		?TIMEOUT T_dly			
17		+main			
18		(TCV_Null := OO_PowerDown())			6.
19	L_063 8	(TCV_Res := OO_ACMIncCHK("30")) [TCV_Res]		(P)	4.

Continued on next page



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
20	L_063 9	[NOT TCV_Res]		(F)	2.
21		main +EstablishFacMO( 90000, FwdChAdvSS_19, TSPX_SDCCH4SubDef, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			
22		?TIMEOUT T_dly			
<b>Detailed Comments</b> : 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_CKSNDDef, 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_064 0	[TCV_Res]		(P)	
11	L_064 1	[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_CKSNDDef, 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_064 2	[(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_064 3	[(88000 > TCV_Time) OR (TCV_Time > 92000)]		(F)	
14		+localtree1			
15		localtree1			
16		L!DL_DatRqRel	ReleaseSnd( TCV_chTch, Release_08( TCV_TI))		
17	L_064 4	L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_03( TCV_TI0))		
18		+PostMainLinkRel(TCV_chTch)			
19		(TCV_Res := OO_ACMIIncCHK("2"))			5.
20		[TCV_Res]		(P)	
21	L_064 5	[NOT TCV_Res]		(F)	
22		execution2			
23		+InitCall(TCV_Service)			
24		START T_dly( 5000)			
25	L_064 6	?TIMEOUT T_dly		(P)	
26	L_064 7	L?DL_RacInChRq CANCEL T_dly	ChReq( ChRequest_02)	(F)	
27		execution3			
28		+BasicServiceMO( C_EmgCall, TSPX_EmgCallRate)			
29		+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)			
30		+InitCall(C_EmgCall)			6.
31		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_16)		
32		ACTIVATE(OtherEventsFail_02)			To match ChReq retrans.
33		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
34		L?DL_EstInCmsRq	CMSerReq( CMSerReq_01)		
35		ACTIVATE(OtherEventsFail)			Restore Normal default
36		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMSerReq_01)		
37		+RcvSetupOrEsetup( TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35		+continue1			
36		continue1			
37		L!DL_DatRqCallProc	CallProc(TCV_ch, TCV_CallProc)		
38		+AssCmdGen( TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)			
39		+AssCh_complete( TCV_ch, TCV_chTch, TCV_AssCmd)			
40		L!DL_DatRqAlert	AlertSnd( TCV_chTch, Alerting_01( TCV_TI))		
41		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_05( TCV_TI, facilityIEtsndiei( FwdChAdvSS_21)))		7.
42		START T_dly1(10000), START T_dly(120000)			
43		+AOC_CHK_FAC(TCV_TI0)			
44		?TIMEOUT T_dly (TCV_Null := OO_TermCall())			9.
45		+localtree2			
46		localtree2			
47	L_064 8	L?DL_DatInDisc	DiscRcv( TCV_chTch, DisconnR( TCV_TI0, Cause_Def))	(P)	
48		L!DL_DatRqRel	ReleaseSnd( TCV_chTch, Release_08( TCV_TI))		
49		L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_03( TCV_TI0))		
50		+PostMainLinkRel(TCV_chTch) (TCV_Res := OO_ACMIncCHK("0"))			8.
51	L_064 9	[TCV_Res]		(P)	
52	L_065 0	[NOT TCV_Res]		(F)	
<b>Detailed Comments :</b> 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 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 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	body	START T_guard(600)			1.
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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH_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())			
6		+execution1			
7		+execution2			
8		+execution3			
		execution1			
9		+init			
10		+branchA( FwdChAdvSS_20)			
11		+branchF			
12		+TimerCheck			
13		+step20("2")			
	execution2				
14	+init			5.	

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
15	L_065 1	+branchB	ConnAckSnd( TCV_chTch, ConnectAck_01( TI_02))	(P)	8.
16		+branchC			
17		+branchG			
18		+step20("0")			
19		+branchDorE			
20		+branchG			
21		+step20("0")			
22		execution3			
23		+init			
24		+branchA( FwdChAdvSS_21)			
25		+branchH			
26		+step20("0")			
27		init			
28		+PreEnterCCstateU8_34_SS			
29		L!DL_DatRqConnAck			
30		branchA( comp : Component_T)			
31		L!DL_DatRqFac			
32		START T_dly(120000)			
33		L?DL_DatInFac			
34		branchB			
35		L!DL_DatRqFac			
36		branchC			
37		L?DL_DatInFac			
38		L?DL_DatInDisc			
39		branchDorE			
40		L?DL_DatInDisc			
41		START T_dly1(10000)			
42		?TIMEOUT T_dly1			
43		L?DL_DatInFac			
44		branchF			
45		L?DL_DatInDisc READTIMER T_dly(TCV_Time) , CANCEL T_dly, CANCEL T_dly1			
46		L!DL_DatRqRel			

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_065 4	[TCV_Res]		(P)	
52	L_065 5	[NOT TCV_Res]		(F)	
		TimerCheck			
53	L_065 6	[(88000 <= TCV_Time) AND (TCV_Time <= 92000)]		(P)	4.
54	L_065 7	[(88000 > TCV_Time) OR (TCV_Time > 92000)]		(F)	4.
<b>Detailed Comments :</b> 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_CKSNDf, 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_UdatRqImm	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		Restore Normal default
7		L?DL_EstInCmsRq	CMSerReq( CMSerReq_08)		
8		ACTIVATE( OtherEventsFail)			
9		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMSerReq_01)		
10		+continue			
11		continue 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( facilityIErcv( 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

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18		LIDL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndiei( RegPasswdSSRsIt_01( TCV_InvkId))))		
19		+PostMainLinkRel( TCV_ch)			
<b>Detailed Comments :</b> 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH_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		LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		+localtree			
10	L_065 9	localtree 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].registerPa sswordComponents.registerPassword_InvokeCom p.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcviei( RegPasswdSS_01)))	(P)	
11		LIDL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( RegPasswdSSerr_01( TCV_InvkId)))		4.
12		LIDL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
13	L_066 0	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
14		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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	body	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_CKSNDDef, 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*9876#" ))				3.
7		L?DL_DatInCmsRq				CMSerDatReq( CMSerDatReq_08)
8		LIDL_DatRqCmsAcp				CMSerAcp( TCV_chTch, CMSerAcp_01)

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		+continue			
10		continue 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].registerPa sswordComponents.registerPassword_InvokeCom p.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_066 1	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
17		+PostMainLinkRel(TCV_chTch)			
18		MMI_indic_chk (TCV_Res := OO_SSresultCHK(C_RegPswd))			
19	L_066 2	[TCV_Res]		(P)	
20	L_066 3	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS( "***03*330*1234*9876*9877#" ))			3.
7		L?DL_DatInCmsRq	CMSerDatReq( CMSerDatReq_08)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
8		LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		+continue			
10		continue 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].registerPa sswordComponents.registerPassword_InvokeCom p.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcvie( RegPasswdSS_01)))		
11		LIDL_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		LIDL_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		LIDL_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		LIDL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndie( RegPasswdSSErr_03( TCV_InvkId))))		7.
18		+MMI_indic_chk			
19		LIDL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI1))		
20	L_066 4	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
21		+PostMainLinkRel( TCV_chTch)			
		MMI_indic_chk			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
22		(TCV_Res := OO_SSresultCHK(C_RegPswd))			
23	L_066 5	[TCV_Res]		(P)	
24	L_066 6	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_CKSNDf, 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			
7	L_066 7	part1 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_UdatRqImmss	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			
14	L_066 8	localtree 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).activateS SComponents.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_066 9	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)			
21	L_067 0	part2 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.

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23		L!DL_UdatRqImmss	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			
28	L_067 1	localtree1 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].activateS SComponents.activateSS_InvokeComp.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcvie( 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, facilityIEtsndie( ActivateSSRslt_04( TCV_InvkId))))		
34		+Checktree(C_ActBICRoam)			
35		+PostMainLinkRel(TCV_ch)			
36		Checktree(par : INTEGER) (TCV_Res := OO_SSresultCHK(par))			
37	L_067 2	[TCV_Res ]		(P)	
38	L_067 3	[NOT TCV_Res ]		(F)	
<b>Detailed Comments</b> : 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_CKSNDDef, 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		LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	L_067 4	localtree 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).activateS SComponents.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_067 5	[TCV_Res]		(P)	5.
14		+localtree1			
15	L_067 6	[NOT TCV_Res]		(F)	
16		+localtree1			
17		localtree1 L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
18	L_067 7	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
19		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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_067	L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)	(P)	
8	8	LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	L_067 9	localtree 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].activateS SComponents.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_068 0	[TCV_Res]		(P)	
14		+localtree1			
15	L_068 1	[NOT TCV_Res]		(F)	
16		+localtree1			
17		localtree1 (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_068 2	[TCV_Res]		(P)	6.
22		+localtree2			
23	L_068 3	[NOT TCV_Res]		(F)	
24		+localtree2			
25		localtree2 L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
26	L_068 4	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
27		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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 :	<div>5. ReturnError indication negative password checking.</div> <div>6. The user indication is correct, pass.</div>

## 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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			
7	L_068 5	part1 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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
10	L_068 6	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_08)	(P)	Restore Normal default
11		ACTIVATE(OtherEventsFail)			
12		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
13		+localtree			
14	L_068 7	localtree 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.deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03( RegisterPdu_03( facilityIErcvie( 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_068 8	[TCV_Res]		(P)	
18		+localtree1			
19	L_068 9	[NOT TCV_Res]		(F)	
20		+localtree1			
21		localtree1			
22		(TCV_Null := OO_EnterPswd("1234"))			4.
		L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( GetPasswdRslt_01)))		
23		L!DL_DatRqRelCmp	RelComSnd(TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndie( DeactivateSSRslt_03( TCV_InvkId)))		
24		+PostMainLinkRel(TCV_ch)			
		part2			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25	L_069 0	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)	(P)	To match ChReq retrans.
26		ACTIVATE(OtherEventsFail_02)			
27		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
28	L_069 1	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_08)	(P)	Restore Normal default
29		ACTIVATE(OtherEventsFail)			
30		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
31		+localtree2			
32	L_069 2	localtree2 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_069 3	[TCV_Res]		(P)	
36		+localtree3			
37	L_069 4	[NOT TCV_Res]		(F)	
38		+localtree3			
39		localtree3 (TCV_Null := OO_EnterPswd("1234"))			
40	L_069 5	L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( GetPasswdRslt_01)))	(P)	

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_069 6	[TCV_Res]		(P)	
44		+PostMainLinkRel(TCV_ch)			
45	L_069 7	[NOT TCV_Res]		(F)	
46		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments</b> : 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_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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("#353#"))			3.
7		L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
8		LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
9		+localtree			
10	L_069 8	localtree 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].deactivate SSComponents.deactivateSS_InvokeComp.invoke ID, 1))	Register_03( RegisterPdu_03( facilityIErcviei( DeactivateSS_05)))	(P)	
11		LIDL_DatRqRelCmp	RelComSnd(TCV_chTch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( DeactivateSSErr_01( TCV_InvkId)))		4.
12		(TCV_Res := OO_SSresultCHK(C_DeactBl))			
13	L_069 9	[TCV_Res]		(P)	5.
14		+localtree1			
15	L_070 0	[NOT TCV_Res]		(F)	
16		+localtree1			
17		localtree1 LIDL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
18	L_070 1	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
19		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments</b> : 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)			2.
6		(TCV_Null := OO_InitSS("#332#"))			3.
7	L_070 2	L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)	(P)	
8		LIDL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
9		+localtree			

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	L_070 3	localtree 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( facilityIErcviei( 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_070 4	[TCV_Res]		(P)	
14		+localtree1			
15	L_070 5	[NOT TCV_Res]		(F)	
16		+localtree1			
17		localtree1 (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_DeactBOICEHC))			
21	L_070 6	[TCV_Res]		(P)	6.
22		+localtree2			
23	L_070 7	[NOT TCV_Res]		(F)	
24		+localtree2			
25		localtree2 L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
26	L_070 8	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
27		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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.					

Test Case Dynamic Behaviour	
Detailed Comments :	<div><div>4. To enter password.</div><div>5. ReturnError indication negative password checking.</div><div>6. The user indication is correct, pass.</div></div>

## 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_CKSNDDef, 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			
7	L_070	part1			
9		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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
10	L_071 0	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_08)	(P)	Restore Normal default
11		ACTIVATE(OtherEventsFail)			
12		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
13		+localtree			
14	L_071 1	localtree 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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_071 2	[TCV_Res]		(P)	
18		+localtree1			
19	L_071 3	[NOT TCV_Res]		(F)	
20		+localtree1			
21		localtree1			
22		(TCV_Null := OO_EnterPswd("1234")) L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( GetPasswdRslt_01)))		4.
23		L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndiei( InterrogateSSRslt_03( TCV_InvkId)))		
24		+PostMainLinkRel(TCV_ch)			
		part2			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25	L_071 4	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)	(P)	To match ChReq retrans.
26		ACTIVATE(OtherEventsFail_02)			
27		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
28	L_071 5	L?DL_EstInCmsRq	CMSerReq( CMServiceReq_08)	(P)	Restore Normal default
29		ACTIVATE(OtherEventsFail)			
30		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
31		+localtree2			
32	L_071 6	localtree2 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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_071 7	[TCV_Res]		(P)	
36		+localtree3			
37		[NOT TCV_Res]		(F)	
38	L_071 8	+localtree3			
39		localtree3 (TCV_Null := OO_EnterPswd("1234"))			
40		L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( GetPasswdRslt_01)))	(P)	

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_072 0	[TCV_Res]		(P)	
44		+PostMainLinkRel(TCV_ch)			
45	L_072 1	[NOT TCV_Res]		(F)	
46		+PostMainLinkRel(TCV_ch)			
<b>Detailed Comments :</b> 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 establishment 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(invoked\_problem) where invoked\_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_CKSNDDef, 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			
10		part1 L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
11		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
12		+localtree			
13		localtree 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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_072 2	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
17		part2 L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
18		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMServiceAcp_01)		
19		+localtree1			
20		localtree1 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].interrogat eSSComponents.interrogateSS_InvokeComp.invo kelD, 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))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
23	L_072 3	[TCV_Res]		(P)	
24		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
25	L_072 4	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
26		+PostMainLinkRel(TCV_chTch)			
27	L_072 5	[NOT TCV_Res]		(F)	
28		L!DL_DatRqCcstEnq	CCStESnd( TCV_chTch, CCStatusEq_01( TCV_TI))		
29	L_072 6	L?DL_DatInCcst	CCStRcv( TCV_chTch, CCStatus_14( TCV_TI0, C_U10))	(P)	
30		+PostMainLinkRel(TCV_chTch)			
<b>Detailed Comments :</b> 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_CKSNDDef, 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		LIDL_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		LIDL_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, facility!Etsndiei( NotificationSS_05)))		
14		(TCV_Res := OO_SSresultCHK( C_NotifyBI))			
15	L_072 7	[TCV_Res]		(P)	
16		+PostMainLinkRel(TCV_ ch)			
17	L_072 8	[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 ProcessUnstructuredSS-Request invoke component. This message will contain the alphabet indicator set to "SMS default alphabet" and the language 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)

Deactivation    #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 initiating 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 handling 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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:= '300E02013B0FC6F038CD4ED3F391E71 2'O, TCV_counter_c:=1, TCV_counter_k:=1)			USSD String for FACILIT Y 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)		

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, Proglnd_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_UdatRqImmss	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_UdatRqImmss	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( CMSerReq_01)		
33		ACTIVATE(OtherEventsFail)			Restore Normal default
34		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMSerReq_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))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
39	L_072 9	L?DL_DatInConnAck	ConnAckRcv( ConnectAck_02( TCV_TI0))	(P)	
40		ltree_UssdOperation(ch: LOGICCH) L!DL_DatRqCmsAcp	CMSErAcp( ch, CMServiceAcp_01)		
41		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].process UnstructuredSSRequestComponents.processUn structuredSSRequest_InvokeComp.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSDReq_01( TCV_UssdString))))		
42		L!DL_DatRqRelCmp	RelComSnd( ch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( USSDReq_01( TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets, TCV_UssdString))))		
43		ltreeSetLoopParameters [TCV_counter_c=1]			
44		(TCV_UssdString:="*60#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O")			activation n with no supplem ent. informati on
45		[TCV_counter_c=2]			activation n with one field of sup. informati on
46		(TCV_UssdString:="*201*35#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O")			
47		[TCV_counter_c=3]			activation n with two fields of sup. informati on
48		(TCV_UssdString:="*70*635*562#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O")			
49		[TCV_counter_c=4]			deactiva tion with no supplem ent. informati on
50		(TCV_UssdString:="*60#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O")			
51		[TCV_counter_c=5]			



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]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
66		(TCV_UssdString:="**70*635*562#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			registrati on with two fields of sup. informati on
67		[TCV_counter_c=13]			
68		(TCV_UssdString:="##60#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			erasure with no supplem ent. informati on
69		[TCV_counter_c=14]			
70		(TCV_UssdString:="##201*35#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			erasure with one field of sup. informati on
71		[TCV_counter_c=15]			
72		(TCV_UssdString:="##70*635*562#", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			erasure with two fields of sup. informati on
73		[TCV_counter_c=16]			
74		(TCV_UssdString:="7", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			acc. requirem ent 1a (GSM 11.10)
75		[TCV_counter_c=17]			
76		(TCV_UssdString:="26", TCV_PreviousOctets:="O", TCV_FollowingOctets:="O)			acc. requirem ent 1a (GSM 11.10)
77	L_073 0	[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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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		+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( CServiceReq_08)		
12		ACTIVATE(OtherEventsFail)			Restore Normal default
13		L!DL_DatRqCmsAcp	CMSerAcp( TCV_ch, CServiceAcp_01)		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
14	L_073 1	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].processUnstructured SSRequestComponents.processUnstructu redSSRequest_InvokeComp.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSDReq_01( TCV_UssdString))))	(P)	Invoke Process Unstruct uredUS S-Req est
15		LIDL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( ProcessUSSRequest_02( TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return result Process Unstruct uredUS S-Data
16		L?DL_DatInCmsRq	CMSerDatReq( CMServiceReq_08)		
17		LIDL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
18	L_073 2	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.compone nts_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSData_01(TCV_UssdSt ring)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp.[TC V_n].processUnstructuredSSReque stComponents.processUnstructure dSSRequest_InvokeComp.invokeI D, 1))	Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSData_01( TCV_UssdString))))	(P)	Invoke Process Unstruct uredUS S-Data
19		LIDL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( ProcessUSSData_02( TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		Return result Process Unstruct uredUS S-Data
20		+PostMainLinkRel( TCV_ch)			
21		ltree_part2 (TCV_Null:=OO_InitSS(TCV_UssdString))			
22		+ltree_MMConnection			
23		L?DL_EstInCmsRq	CMSerReq( CMServiceReq_08)		
24		ACTIVATE(OtherEventsFail)			Restore Normal default

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
25	L_073 3	LIDL_DatRqCmsAcp	CMSErAcp( TCV_ch, CMServiceAcp_01)	(P)	Invoke Process Unstruct eredUS S-Req est
26		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].p rocessUnstructuredSSRequestComponent s.processUnstructuredSSRequest_Invoke Comp.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSDReq_01( TCV_UssdString))))		
27		LIDL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_42( TCV_TI2))		
28		+PostMainLinkRel(TCV_ch)			
29		+Itree_MMConnection			
30		L?DL_DatInCmsRq	CMSErDatReq( CMServiceReq_08)		
31		ACTIVATE( OtherEventsFail)			
32		L ! DL_DatRqCmsAcp	CMSErAcp( TCV_ch, CMServiceAcp_01)		
33		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.co mponents_1, TCV_n := OC_PosinSet(TCV_Comp, ProcessUSSData_01(TCV_U ssdString)), TCV_InvkId := OC_Asn1intToOct(TCV_Comp. [TCV_n].processUnstructure dSSRequestComponents.proc essUnstructuredSSRequest_I nvokeComp.invokeID, 1))	Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSData_01( TCV_UssdString))))		
34		LIDL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI2, facilityIEtsndiei( ProcessUSSData_02( TCV_InvkId, TCV_PreviousOctets, TCV_FollowingOctets))))		
35	L_073 4	+PostMainLinkRel( TCV_ch)		(P)	Invoke Process Unstruct eredUS S-Data
36		Itree_part3 REPEAT Itree_k_loop UNTIL [TCV_counter_k>10] Itree_k_loop			
37		+ItreeSetLoopParameters			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
38	L_073 5	+ltree_MsOrigCall	CMSerDatReq( CMServiceReq_08)  CMSerAcp( TCV_chTch, CMServiceAcp_01)  Register_03( RegisterPdu_03( facilityIErcv( ProcessUSSDReq_01( TCV_UssdString))))	(P)	Invoke Process Unstruct uredUS S-Requ est
39		(TCV_Null:=OO_InitSS(TCV_UssdString))			
40		L?DL_DatInCmsRq			
41		L!DL_DatRqCmsAcp			
42		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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].p rocessUnstructuredSSRequestComponent s.processUnstructuredSSRequest_Invoke Comp.invokeID, 1))			
43		+ltree_ReleaseCmpAccCounterK			
44		L!DL_DatRqDisc			
45		L?DL_DatInRel			
46		L!DL_DatRqRelCmp			
47		+PostMainLinkRel( TCV_chTch)			
48		(TCV_counter_k:= TCV_counter_k+1)			
49		ltree_ReleaseCmpAccCounterK			
50		[TCV_counter_k<5] L!DL_DatRqRelCmp			Return error Process Unstruct uredUS S-Requ est
51		[TCV_counter_k>4]			
52		L!DL_DatRqRelCmp			Reject Process Unstruct uredUS S-Requ est
53		ltree_MMConnection L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
54		ACTIVATE(OtherEventsFail_02)	ChReq( ChRequest_15)		To match ChReq retrans.

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
55		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv( 0)))		
56		ltree_MsOrigCall			
57		+InitCall(TCV_Service)			
58		L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) ACTIVATE(OtherEventsFail_02)	ChReq( ChRequest_15)		To match ChReq retrans.
59		L!DL_UdatRqImmss	ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv( 0), TCV_tch_arfcn, C_normal_paging))		
60		L?DL_EstInCmsRq	CMSerReq( CMSerReq_01)		
61		ACTIVATE(OtherEventsFail)			Restore Normal default
62		L!DL_DatRqCmsAcp	CMSerAcp( TCV_chTch, CMSerReq_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))		
68		ltreeSetLoopParameters			
69		[TCV_counter_k=1] (TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020122'O)			RETUR N ERR Error code system failure
70		[TCV_counter_k=2]			
71		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020123'O)			RETUR N ERR Error code data missing
72		[TCV_counter_k=3]			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
73		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020147'O)			RETURN Error code unknown alphabet
74		[TCV_counter_k=4]			
75		(TCV_PreviousOctets:='A3060201'O, TCV_FollowingOctets:='020124'O)			RETURN 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_073 6	[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 operation during a call or out of a call.

**Configuration** :

**Default** : OtherEventsFail

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+CCConfigTCH_nociph( TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, 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		+ltree_body			
7		ltree_body			
8		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
9		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_Invkld:='00'O)			
		+CheckUssdStringDisplayed( TCV_UssdString)	RegisterReq(TCV_ch, RegisterPdu_34( TCV_TI, facilityIEtsnd( NotificationSS_06( TCV_Invkld, TCV_UssdString))))		

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Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
10	L_073 7	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:='00 1'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_073 8	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	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
3		(TCV_UssdString:="Transaction OK")			
4		+ltree_body			
5	L_073 9	ltree_body			
6		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
7		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_Invkld0:='00'O)			
8		+CheckUssdStringDisplayed( TCV_UssdString)			
9	L_074 0	L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( NotificationSS_07( TCV_Invkld0))))	(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_Invkld1:='01'O)	RegisterReq(TCV_ch, RegisterPdu_34( TCV_TI2, facilityIEtsnd( NotificationSS_06( TCV_Invkld1, TCV_UssdString))))		
11		L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_49( TCV_TI1, TCV_Invkld1))	(P)	
		L ! DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_09( TCV_TI, facilityIEtsndie( NotificationSS_08( TCV_Invkld0))))		

Continued on next page

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 operation during a call or out of a call.

**Configuration** :

**Default** : OtherEventsFail

**Comments** :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)			
4		+FullRateCh_A_1_nociph( C_Ass, TSPX_TmSlitDef, 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		+ltree_body			
7		ltree_body			
8		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
9		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_Invkld:= '00'O)			
10		+CheckUssdStringDisplayed( TCV_UssdString1)			
		(TCV_Null:=OO_InitSS( TCV_UssdString2))			

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Test Case Dynamic Behaviour							
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments		
11	L_074 1	L?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( USSDReq_04( TCV_Invkld, 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_Invkld:='01'O)	RegisterReq(TCV_chTch, RegisterPdu_34( TCV_TI2, facilityIEtsnd( USSDReq_03( TCV_Invkld, 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?DL_DatInFac	FacilityRcv( FacilityPdu_26_ci( TCV_TI1, facilityIErcv( USSDReq_04( TCV_Invkld, 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	body	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_CKSNDDef, 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		+ltree_body			
5	L_074 3	ltree_body	RegisterReq(TCV_ch, RegisterPdu_34( TCV_TI, facilityIEtsnd( NotificationSS_06( TCV_Invkld0, TCV_UssdString1))))	(P)	
6		+PreEstRRConn( TCV_slot, TCV_tsc, TimingAdv( 0))			
7		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_Invkld0:='00'O)			
8		+CheckUssdStringDisplayed( TCV_UssdString1)			
9	L_074 4	(TCV_Null:=OO_InitSS( TCV_UssdString2))	FacilityRcv( FacilityPdu_26_ci( TCV_TI0, facilityIErcv( USSDReq_04( TCV_Invkld0, TCV_UssdString2))))	(P)	
10		L?DL_DatInFac			
11	L_074 4	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_Invkld1:='01'O)	RegisterReq(TCV_ch, RegisterPdu_34( TCV_TI2, facilityIEtsnd( NotificationSS_06( TCV_Invkld1, TCV_UssdString1))))	(P)	
		L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_50( TCV_TI1, TCV_Invkld1))		

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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_CKSNDDef, 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)		Restore Normal default
18		ACTIVATE(OtherEventsFail)			
19		LIDL_DatRqCmsAcp	CMSerAcp( TCV_ch, CMServiceAcp_01)		
20		L?DL_DatInSetup( TCV_TI := DL_DatInSetup.msg.ti, TCV_CalledNum := DL_DatInSetup.msg.cdpr, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B)	SetupRcv( SetupInd_01)		
21		LIDL_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			
26		ltree_check(num : IA5String) (TCV_Res := OC_CalledNumCHK( TCV_CalledNum.digits, num))			3.
27	L_074 5	[TCV_Res]		(P)	
28	L_074 6	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> : 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_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_CKSNDDef, 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	L_110 0	+Ltree_ImsiDetach(10000, C_Yes)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(Milmsi_01))	(P)	Initiate MO call
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))			
22		+NoReaction(20000)			
		Step_e			
23		L!DL_UdatRqPg1Rq			
24		+NoReaction(20000)			
	L_110 1	Ltree_ImsiDetach(t : INTEGER ; valid_TimeOut : BOOLEAN)	DatInImsiDet(ImsiDetach_0 1)	(P)	IMSI detach accepted or..
25		START T_dly(t)			
26		L?DL_DatInImsidIn			
27		L?DL_RelIn CANCEL T_dly			
28		?TIMEOUT T_dly			
29	L_110 2	?TIMEOUT T_dly	DLRelInd_01	(P)	No respons e
30		[valid_TimeOut]			
31		[NOT valid_TimeOut]			
<b>Detailed Comments</b> : 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	body	START T_guard( 1200)			
2		+ltree_emptystorage( TRUE)			
3		(TCV_asscmd_ts := TSPX_TmSlitDef, 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_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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
6		+FullRateCh_A_1( C_Ass, TSPX_TmSlitDef, 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		+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_CPDDataRetx := 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_CPDDataRetx := 0, TCV_ti_v_2 := '000'B, TCV_chSms := C_SACCHF_A_1)			
43		+ltree_set_sapi3_SACCH			
		ltree_set_sapi3_SDCCH			
44		LIDL_EstRq	DLEstRq( TCV_ch)		SABM(S API=3)
45		L?DL_EstCo	DLEstCo( TCV_ch)		UA(SAP I=3)
		ltree_set_sapi3_SACCH			
46		LIDL_EstRq	DLEstRq( TCV_chSms)		SABM(S API=3)
47		L?DL_EstCo	DLEstCo( TCV_chSms)		UA(SAP I=3)
		ltree_ClearTchChannel_SS			
48		LIDL_DatRqDisc	DiscSnd( TCV_chTch, DisconnS( TI_02, Cause_01, ProgInd_omit, UuInfo_omit))		

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
49	L_074 7	L?DL_DatInRel	ReleaseRcv( Release_10( TI_01))	(P)	
50		L!DL_DatRqRelCmp	RelComSnd( TCV_chTch, ReleaseCmp_08( TI_02))		
51		ltree_ClearTchChannel_MS ( TCV_Null := OO_TermCall())			
52	L_074 8	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)		
54		L!DL_DatRqRel	ReleaseSnd( TCV_chTch, Release_08( TI_02))		
55	L_074 9	L?DL_DatInRelCmp	RelComRcv( ReleaseCmp_03( TI_01))	(F)	
56		?TIMEOUT T_dly			
57		L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		
58	L_075 0	?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)))		
60		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		
61		L?DL_RelIn	DLRelInd_01		
62		ltree_sms1( ch: LOGICCH)			
63		+ltree_sms2( ch)			
64		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		
65		L?DL_RelIn	DLRelInd_01		
66		ltree_sms2( ch: LOGICCH)			
67		L!DL_DatRqCpData ( TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdatt.p deliver.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)		
68					
69					
70	L_075 1	?TIMEOUT T_dly		(F)	



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
67	L_075 2	L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))	(F)	CP-ACK ms->n
68		?TIMEOUT T_dly			
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
70		ltree_sms3( ch: LOGICCH)			
71	L_075 3	+ltree_sms2( ch)		(F)	
72		START T_dly(TCV_T_TwiceTC1M)			
73		?TIMEOUT T_dly			First CP-DATA ( Rp-Ack) not acknowledged
74		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
75		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		Second CP-DATA ( Rp-Ack) acknowledged
76		L?DL_RelIn	DLRelInd_01		
77		ltree_sms4(ch: LOGICCH; time: INTEGER)			
78		+ltree_sms2( ch)			
79	L_075 4	REPEAT ltree_sms5( ch) UNTIL [TCV_CPDDataRetx = TSPX_MaxCPDataRetx]		(F)	CP-DATA ( RP-Ack ) retransmitted
80		START T_dly((( TSPX_TC1M + time) * 1000))			
81		L?DL_DatInCpData CANCEL T_dly	DatInCpData( ch, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_02( TCV_Rpmr)))		RP-Ack shall not be sent more than TSPX_MaxCPDataRetx times
82		?TIMEOUT T_dly			
83	L_075 5	?TIMEOUT T_dly		(P)	
84	L_075 6	ltree_sms5(ch: LOGICCH)		(F)	
85		START T_dly( TCV_T_TwiceTC1M)			
86	L_075 6	?TIMEOUT T_dly		(F)	

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-DA TA (RP-Ac k) ms->n
84		(TCV_CpDataRetx := TCV_CpDataRetx + 1)			
85		ltree_CheckMessage( ch: LOGICCH; Emptying : BOOLEAN)			
86	L_075 7	(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMessageDisplayed( 160, TCV_SMcmts))		(F)	
87		[NOT TCV_Res]			
88	L_075 8	+ltree_emptystorage( Emptying)		(P)	
89		[TCV_Res ]			
90		+ltree_emptystorage( Emptying)			
91		ltree_sms1_tch( ch: LOGICCH)			
92		+ltree_sms2( ch)			
93		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K n->ms
94		+ltree_ClearTchChannel_SS			
95		L?DL_RelIn	DLRelInd_01		
96	L_106 5	ltree_sms3_tch( ch: LOGICCH)			
97		+ltree_sms2( ch)			
98		START T_dly(TCV_T_TwiceTC1M)			
99		?TIMEOUT T_dly		(F)	First CP-DA TA( Rp-Ack) not acknowl edged
100		L?DL_DatInCpData CANCEL T_dly	DatInCpData( ch, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_02( TCV_Rpmr)))		CP-DA TA(RP- Ack) retransm itted
101		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		Second CP-DA TA( Rp-Ack) acknowl edged
102		+ltree_ClearTchChannel_SS			
103		L?DL_RelIn	DLRelInd_01		
104		ltree_emptystorage( Emptying : BOOLEAN)			
105		[Emptying]			
106		(TCV_Null := OO_EmptyMessageStorage())			
107		[NOT Emptying]			

Test Case Dynamic Behaviour
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<b>Detailed Comments</b> : 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
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## 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	body	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		+ltree_part1			1
7		+ltree_part2			2
8		+ltree_part3			3
9		+ltree_part4			4
10		ltree_part1			CP-Err or
11		+ltree_Environment1_3			
12		+ltree_sms1(TCV_ch)			
13		+ltree_ChanelRel( TCV_ch)			
14		+ltree_Environment1_3			
15		+ltree_sms3( TCV_ch, 5)			
16		+ltree_Environment1_3			
17		+ltree_sms4			
18		+ltree_ChanelRel( TCV_ch)			
19		ltree_part2			
20		+ltree_Environment2			
		+ltree_sms1( TCV_chSms)			
		+ltree_ChanelRel( 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)			Terminat e MO-SM
26		+ltree_ChanRel( TCV_ch)			
27		(TCV_Res := OO_CheckMessageDisplayed( 160, TCV_SMcntns))			
28	L_075 9	[NOT TCV_Res]		(F)	
29	L_076 0	[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_UdatRqImm	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( CMSerReq_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())			

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			
48		ltree_Environment4			
49		+ltree_init			
50		L!DL_DatRqCmsRej	CMSErRej( TCV_ch, CMServiceRej_03)		Service Option not supporte d
51	L_076 1	START T_dly( 5000) ?TIMEOUT T_dly		(P)	
52	L_076 2	L?DL_EstIn CANCEL T_dly	DLEstInd_2( TCV_ch)	(F)	SAPI-3 shall NOT be establish ed
53		ltree_sms1( ch: LOGICCH) 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-DA TA(RP- Data SMS SUBMIT )
54		+ltree_sms2( ch)			Terminat e MO-SM
55		ltree_sms2( ch: LOGICCH) L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v)), TCV_chSms)		CP-AC K 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-DA TA(RP- Ack) n->ms
57	L_076 3	?TIMEOUT T_dly		(F)	
58		+ChanRel( ch)			
59	L_076 4	L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v)))	(P)	CP-AC K ms->n
60		ltree_sms3( ch: LOGICCH; t : INTEGER) 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-DA TA(RP- Data SMS SUBMIT )
61		REPEAT ltree_sms6( ch) UNTIL [TCV_CpDataRetx = TSPX_MaxCPDataRetx]			MO-SM is retransm itted

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62	L_076 5	START T_dly((( TSPX_TC1M + t) * 1000))	DatInCpData( TCV_chSms, CpDataPdu_03( CpData_03( RpData_03)))	(F)	RP-Dat a( RP Data SMS SUBMIT ) shall NOT be sent more than TSPX_M axCPDa taRetx times
63		L?DL_DatInCpData( TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)			
64		+ChanRel( ch)			
65		?TIMEOUT T_dly			
66		+ltree_ChanRel( ch)			
67		ltree_sms4 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-DA TA(RP- Data SMS SUBMIT ) CP error n->ms "Networ k Failure"
68		L!DL_DatRqCpError			
69		ltree_sms5 L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)			
70		+ltree_ti			
71		L!DL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat .tpdeliver.ud) START T_dly( 25000)			
72	L_076 6	?TIMEOUT T_dly	DatRqCpData( CpDataPdu_01( TI_07( TCV_ti_v_2), CpData_01( TCV_TPOA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone1)), TCV_chSms)	(F)	CP-DA TA(RP- Data SMS DELIVE R), n->ms
73		+ChanRel(TCV_ch)			
74	L_076 7	L?DL_DatInCpDataAck START T_dly( 60000)			
75	L_076 8	?TIMEOUT T_dly			
76		+ChanRel(TCV_ch)			
			DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))	(P)	CP-AC K ms->n
				(F)	

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
77	L_076 9	L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_02( TCV_Rpmr)))	(P)	CP-DA TA(RP- Ack) n->ms
78		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		
79		ltree_sms6( ch: LOGICCH) START T_dly( TCV_T_TwiceTC1M)			
80	L_077 0	?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-DA TA(RP- Data SMS SUBMIT )
83		(TCV_CPDDataRetx := TCV_CPDDataRetx + 1) ltree_set_sapi3_SDCCH			
84		L?DL_EstIn	DLEstInd_2( TCV_ch)		
85		(TCV_CPDDataRetx := 0, TCV_chSms := TCV_ch) ltree_set_sapi3_SACCH			
86		L?DL_EstIn	DLEstInd_2( C_SACCHF_A_1)		
87		(TCV_CPDDataRetx := 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)			
92		ltree_ChanelRel( ch: LOGICCH) +ChanRel( ch)			
93		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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
8		ltree_part1 (TCV_ProtErrorUnspec := FALSE, TCV_MemCapExcd := FALSE)			
9		REPEAT ltree_sms1 UNTIL [(TCV_ProtErrorUnspec) OR (TCV_MemCapExcd)]			
10		ltree_part2 (TCV_MemCapExcd := FALSE)			
11		REPEAT ltree_sms2 UNTIL [TCV_MemCapExcd]			
12		ltree_Environment +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
16		ltree_Environment2 L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_04)		To match ChReq retrans.
17		ACTIVATE(OtherEventsFail_02)			
18		L!DL_UdatRqImmss	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)			
24		ltree_sms1			CP-DA TA(RP- Data SMS DELIVE R), n->ms class 2 MT-SM
25		+ltree_Environment 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)		
26	L_077 1	?TIMEOUT T_dly		(F)	
27		+ChanRel(TCV_ch)			
28	L_077 2	L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))	(P)	CP-AC K ms->n
29	L_077 3	?TIMEOUT T_dly		(F)	
30		+ChanRel(TCV_ch)			CP-DA TA(RP- Ack) ms->n
31	L_077 4	L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_02( TCV_Rpmr)))	(P)	
32		L!DL_DatRqCpDataAck CANCEL T_dly	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K n->ms
33		+ChanRel(TCV_ch)			
34		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35	L_077 5	L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_07( TCV_Rpmr)))	(P)	CP-DA TA(RP- Error: Protocol Error, unspecifi ed)
36		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K 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_077 6	L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_08( TCV_Rpmr)))	(P)	CP-DA TA(RP- Error: Memory Capacity Exceede d)
41		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K 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_CheckMCEFOOnSIM())			
45	L_077 7	[NOT TCV_Res]		(F)	
46	L_077 8	[TCV_Res ]		(P)	
47		ltree_sms2 +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-DA TA(RP- Data SMS DELIVE R), n->ms, class 1 MT-SM
49	L_077 9	?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-AC K ms->n

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52	L_078 0	?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-DA TA(RP- Ack) ms->n
55		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K 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-DA TA(RP- Error: Memory Capacity Exceede d)
59		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K 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_CheckMCEFOOnSIM())			
63	L_078 1	[NOT TCV_Res]		(F)	
64	L_078 2	[TCV_Res ]		(P)	
65	L_078 3	ltree_sms3 +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-DA TA(RP- Data SMS DELIVE R) TP-DC S is 0
67		?TIMEOUT T_dly		(F)	
68	L_078 4	+ChanRel(TCV_ch)			
69		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		CP-AC K ms->n
70	L_078 4	?TIMEOUT T_dly		(F)	
71		+ChanRel(TCV_ch)			

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-DA TA(RP- Error: Memory Capacity Exceede d)
73		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K 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.v, TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpsmma.rpmr)	DatInCpData( TCV_chSms, CpDataPdu_02( TI_09, CpData_09))		CP-DA TA(RP- SMMA), ms->n
78		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v)), TCV_chSms)		CP-AC K 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-DA TA(RP- Ack) n->ms
80	L_078 5	?TIMEOUT T_dly		(F)	
81		+ChanRel(TCV_ch)			
82		L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v)))		CP-AC K ms->n
83		+ChanRel(TCV_ch)			
84		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOOnSIMUnset())			
85	L_078 6	[NOT TCV_Res]		(F)	
86	L_078 7	[TCV_Res ]		(P)	
87		(TCV_Null := OO_RemoveOneSM())			
88		START T_dly( 60000)			
89	L_078 8	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-SS MA
90		+ChanRel(TCV_ch)			
91	L_078 9	?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	DLEstCo(TCV_ch)		
		ltree_set_sapi3_SDCCH_MO			
94		L?DL_EstIn	DLEstInd_2( TCV_ch)		
<b>Detailed Comments</b> : 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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 requeste d
11		+ltree_sms2			Terminat e 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 COMMA ND, enquiry)
17		+ltree_sms2			Terminat e MO-SM
18		ltree_part4 (TCV_Null := OO_SendSMSCOMMANDDel())			
19		+ltree_PrepareEnvironmentParts1_3_4			
20		+ltree_sms5			Initiate MO-SM (SMS COMMA ND, deletion)
21		+ltree_sms2			Terminat e MO-SM
22		ltree_PrepareEnvironmentParts1_3_4 (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( CMSerReq_09)		
27		ACTIVATE(OtherEventsFail)			Restore normal default tree
28		+Authentication( TCV_ch, TCV_cks,sn, TSPX_RANDDef)			
29		+Cipherring_on( TCV_ch)			
30		+ltree_set_sapi3_SDCCH_MO			
31		ltree_PrepareEnvironmentPart2 +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			



Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
35	L_079 0	L?DL_DatInCpData( TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_Tpmr := DL_DatInCpData.msg.CPdata.rpdata.rpusdat.tps ubmit.mr, TCV_ti_v := DL_DatInCpData.msg.ti.ti_v)  ltree_sms2	DatInCpData( TCV_chSms, CpDataPdu_03( CpData_03( RpData_08)))	(F)	RP-Dat a
36		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v)), TCV_chSms)		RP-Ack
37		L!DL_DatRqCpData	DatRqCpData( CpDataPdu_02( TI_08( TCV_ti_v), CpData_04( TCV_Rpmr)), TCV_chSms)		
38		START T_dly( 25000)	DatInCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v)))		
39		?TIMEOUT T_dly			
40		+ChanRel(TCV_ch)			
41		L?DL_DatInCpDataAck CANCEL T_dly			
42		+ChanRel_P(TCV_ch)			
43		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))	DatRqCpData( CpDataPdu_01( TI_07( TCV_ti_v_2), CpData_12( TCV_TPDA, TCV_RPOA_MT, TCV_Tpmr, TCV_Rpmr, C_Tzone3)), TCV_chSms)		
44		ltree_sms3 +ltree_PrepareEnvironmentPart2			
45		L!DL_DatRqCpData			
46	START T_dly( 25000)				
47	?TIMEOUT T_dly				
48	+ChanRel(TCV_ch)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))			
49	L?DL_DatInCpDataAck CANCEL T_dly				
50	START T_dly( 60000)				
51	L_079 2	?TIMEOUT T_dly	(F)	RP-Dat a status report	
52	+ChanRel(TCV_ch)				
53	L?DL_DatInCpData CANCEL T_dly				
54		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)	RP-Ack	
55		+ChanRel(TCV_ch)			
56		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
57		ltree_sms4 L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_Tpmr := DL_DatInCpData.msg.CPdata.rpdata.rpusrdat.tpc ommand.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-Dat a, SMS COMMA ND, enquiry
58		ltree_sms5 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-Dat a, SMS COMMA ND, deletion
59		ltree_set_sapi3_SDCCH_MO L?DL_EstIn	DLEstInd_2( TCV_ch)		
60		ltree_set_sapi3_SDCCH_MT L!DL_EstRq	DLEstRq( TCV_ch)		
61		L?DL_EstCo	DLEstCo( TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_34_2_5_1 <b>Group</b> : SM/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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_079 3	[TCV_Res ]		(F)	Message store should be empty
7	L_079 4	[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)			
14		ltree_Release +ChanRel( TCV_ch)			
15		(TCV_Null := OM_CphMd( TCV_ch, CphMod_02, TCV_CphKey))			
16		ltree_Environment +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)			
20		ltree_sms1			
21		+ltree_Environment			
22	L_079 5	L!DL_DatRqCpData ( TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpddeliver.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)	(F)	RP-Dat a Initiate class 0 MT-SM
23		L?DL_DatInCpDataAck START T_dly(60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		
24	L_079 6	?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_079 7	[NOT TCV_Res]		(F)	
29	L_079 8	[TCV_Res ]		(P)	
30		ltree_sms2			
31		+ltree_Environment			
32	L_079 9	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)	(F)	RP-Dat a Initiate class 1 MT-SM
33		L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		
34	L_080 0	?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)		

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-Err or: 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4	body	+ltree_Environment			1
5		+ltree_sms1			
6		ltree_Environment			
7		+RRmtcallprepare(TimingAdv( 0), TSPX_RANDDef)			
8		+ltree_set_sapi3_SDCCH_MT (TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)			
9		ltree_sms1 LIDL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tp deliver.ud)	DatRqCpData( CpDataPdu_01( TI_07( TCV_ti_v_2), CpData_06( TCV_RPOA_MT, TCV_TPOA1, TCV_Rpmr, C_Tzone5)), TCV_chSms)		RP-Dat a Initiate class 1 MT-SM
10		START T_dly(25000)			
11	L_080 1	?TIMEOUT T_dly		(F)	
12		+ChanRel(TCV_chTch)			
13	L_080 2	L?DL_DatInCpDataAck CANCEL T_dly	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))	(P)	
14		START T_dly(60000)			
15	L_080 3	?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_080 4	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_080 5	[NOT TCV_Res]		(F)	
22	L_080 6	[TCV_Res ]		(P)	
23		ltree_set_sapi3_SDCCH_MT			
24		L!DL_EstRq L?DL_EstCo	DLEstRq(TCV_ch) 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 cause, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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-DA TA(RP- Data SMS DELIVE R), n->ms class 2 MT-SM
18	L_080 7	?TIMEOUT T_dly		(F)	
19		L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		CP-AC K ms->n
20		ltree_sms2 (TCV_Res := OO_SIMSimulAttIndOK())			ME attempt to store SM on SIM? Status OK ( '9000' )
21	L_080 8	[NOT TCV_Res]		(F)	
22		[TCV_Res ]			
23	L_080 9	?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-DA TA(RP- Ack) ms->n
25		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K n->ms
26		ltree_sms3 (TCV_Res := OO_SIMSimulAttIndMemProblem())			ME attempt to store SM on SIM? Status 'memory problem' ( '9240' )
27	L_081 0	[NOT TCV_Res]		(F)	
28		[TCV_Res ]			
29		[TSPC_StoreRcvSMSME]			
30	L_081 1	?TIMEOUT T_dly		(F)	

Test Case Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_081 2	L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_07( TCV_Rpmr)))	(F)	CP-DA TA(RP- Error: Protocol Error, unspecifi ed)
32		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K n->ms
33		[NOT TSPC_StoreRcvSMSME]			
34		?TIMEOUT T_dly			
35		L?DL_DatInCpData CANCEL T_dly	DatInCpData( TCV_chSms, CpDataPdu_02( TI_08( TCV_ti_v_2), CpData_08( TCV_Rpmr)))		CP-DA TA(RP- Error: Memory capacity exceede d)
36		L!DL_DatRqCpDataAck	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		CP-AC K n->ms
37		ltree_set_sapi3_SDCCH_MT			
38		L!DL_EstRq L?DL_EstCo	DLEstRq(TCV_ch) DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_34_2_7 <b>Group</b> : SM/ <b>Purpose</b> : To verify the correct implementation of the replace mechanism for Replace Short Messages. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, 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		+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_081 3	[NOT TCV_Res]		(F)	
19	L_081 4	[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))			
22		ltree_Environment			
23		+Wait(C_T_Wait1)			
24		+RRmtcallprepare(TimingAdv( 0), TSPX_RANDDef)			
25		+ltree_set_sapi3_SDCCH_MT (TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)			
26		ltree_sms1( text: IA5String)			
27		+ltree_Environment 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-Dat a
28	L_081 5	?TIMEOUT T_dly		(F)	
29		L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))		
30	L_081 6	?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  ltree_set_sapi3_SDCCH_MT	DatRqCpDataAck( CpDataAckPdu_02( TI_07( TCV_ti_v_2)), TCV_chSms)		
33		L!DL_EstRq	DLEstRq(TCV_ch)		
34		L?DL_EstCo	DLEstCo(TCV_ch)		
Detailed Comments :					

Test Case Dynamic Behaviour					
<b>Test Case Name</b> : TC_34_2_8 <b>Group</b> : SM/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	body	START T_guard(300)			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
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)			
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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)			
4		+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_UdatRqImm	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			
21		ltree_part1 +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
29		ltree_part2 (TCV_CB3 := OO_DisplaySMAndSendReplySM( 1, 160, TCV_CB1))			TCV_CB 3 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

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.rpusdat.t pdeliver.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-Dat a
38	L_081 7	?TIMEOUT T_dly		(F)	
39	L_081 8	L?DL_DatInCpDataAck START T_dly( 60000)	DatInCpDataAck( CpDataAckPdu_01( TI_08( TCV_ti_v_2)))	(P)	
40	L_081 9	?TIMEOUT T_dly		(F)	
41	L_082 0	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.v)	DatInCpData( TCV_chSms, CpDataPdu_18( TCV_TPDA,TCV_RPDA_MT , tpud))		RP-Dat a, TP-sub mit
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_082 1	?TIMEOUT T_dly		(F)	
48	L_082 2	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					
<b>Test Case Name</b> : TC_34_3 <b>Group</b> : SM/ <b>Purpose</b> : 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. <b>Configuration</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_cbms, C_NCCP_2)			
4	body	+ltree_body			
5		ltree_body +SendSMSCBMessage( SerialNumber_01)			Send cell broadca st message
6		(TCV_Res := OO_CheckCBSMReceived( 93, TCV_SMSCBpack))			
7	L_082 3	[NOT TCV_Res]		(F)	
8	L_082 4	[TCV_Res ]		(P)	
9		+SendSMSCBMessage( SerialNumber_02)			Send cell broadca st message
10		(TCV_Res := OO_CheckCBSMReceived( 93,TCV_SMSCBpack))			
11	L_082 5	[NOT TCV_Res]		(F)	
12	L_082 6	[TCV_Res ]		(P)	
13		+SendSMSCBMessage( SerialNumber_03)			Send cell broadca st 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_082 7	[NOT TCV_Res]		(F)	
16	L_082 8	[TCV_Res ]		(P)	
17		+ltree_body2			
18		ltree_body2 +SendSMSCBMessage( SerialNumber_01)			Send cell broadca st message
19		(TCV_Res := OO_CheckCBSMReceived( 93, TCV_SMSCBpack))			
20	L_082 9	[NOT TCV_Res]		(F)	
21	L_083 0	[TCV_Res ]		(P)	
22		(TCV_Null := OM_SendSMSCBWhilePaging( TCV_CBch))			Send cell broadca st message while paging
23		+SendSMSCBMessage( SerialNumber_02)			Send cell broadca st message
24		+localtree			
25		(TCV_Res := OO_CheckCBSMReceived( 93, TCV_SMSCBpack))			
26		[NOT TCV_Res]			
27		+localtree2			
28	L_083 1	[TCV_Res ]		(P)	
29		+localtree2			
30		localtree2 +SendSMSCBMessage( SerialNumber_03)			Send cell broadca st message
31		(TCV_Res := OO_CheckCBSMReceived( 93, TCV_SMSCBpack))			
32	L_083 2	[NOT TCV_Res]		(F)	
33	L_083 3	[TCV_Res ]		(P)	
34		localtree LIDL_UdatRqPg1Rq	PgReq1( TCV_PgCh, TCV_Pgg, PgReqTp1_01)		
35		START T_dly( 5000)			
36	L_083 4	?TIMEOUT T_dly		(F)	

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_UdatRqImm	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_conten ts)	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_conte nts)	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					
<b>Test Step Name</b> : StopAllBCCH <b>Group</b> : management/ <b>Objective</b> : To stop the RF transmission of all BCCH channels in all active cells. <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Stopmaindcch(ch_main : LOGICCH; ch_sacch : LOGICCH) <b>Group</b> : management/ <b>Objective</b> : To stop the transmission of main dcch channel and wait till no more uplink SACCH frame. <b>Default</b> : OtherEventsFail_01 <b>Comments</b> : '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))			
6		ltree_rcvmsr			
7		L?DL_UdatInMsrRpt	MsrRept( MsrReport_02)		2.
8	L_083 5	START T_dly1(C_T_mrsrp)		(P)	
9		?TIMEOUT T_dly1  (TCV_Res := TRUE)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : Configure Tester for TCH/H or TCH/F depending on TCV_ChRate. Set power level according to parameter.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 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; chcmnb : 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, chcmnb, 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"))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHF_ACCH's of cell B.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

### 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHH_ACCH's of cell A.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHH_ACCH's of cell B.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

### 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					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : 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.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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"))			
<b>Detailed Comments</b> :					

## 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; chcmnb : 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, chcmnb, 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					
<b>Test Step Name</b> : Config_SDCCH4_B_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmbrn : LOGCH; ta : TA; babr, cch_con, bpm : B_3)					
<b>Group</b> : management/					
<b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf( par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbrn, 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"))			
<b>Detailed Comments</b> :					

## 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; chcmnb : 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 controllable 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, chcmnb, 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					
<b>Test Step Name</b> : Config_SDCCH4_C_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)					
<b>Group</b> : management/					
<b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf( par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 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"))			
<b>Detailed Comments</b> :					

## 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; chcmnb : 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, chcmnb, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellID, 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					
<b>Test Step Name</b> : Config_SDCCH4_E_1(par_bspwr , par_mspwr : INTEGER; chmod : CHMOD; acttype : BITSTRING; slot : SN; tsc : TSC; rf : FRQPARA; chcmnb : LOGCH; ta : TA; babr, cch_con, bpm : B_3)					
<b>Group</b> : management/					
<b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OM_ChConf( par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmnb, 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"))			
<b>Detailed Comments</b> :					

## 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; chcmnb : 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, chcmnb, 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; chcmnb : 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, chcmnb, 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; chcmnb : 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, chcmnb, 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as SDCCH8 channel for instance 1 of cell A.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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 ))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : CombinedBCCH_A_CBMS( par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> : 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_SDCC H4_SACCHC4, ta, babr, cch_con, bpm)			2.
3		[TSPC_DCS]			
4		+Config_CBMS_A_1( par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH( arfcn2), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCC H4_SACCHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_A(par_bspwr , mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			2.
3		[TSPC_DCS]			
4		+Config_SDCCH4_A_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH( arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, 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_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell B. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, 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_SAC CHC4, ta, babr, cch_con, bpm, td, fn)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell C. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_C_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_D(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell D. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_D_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_E(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell E. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_E_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_F(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell F. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_F_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_G(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2: INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			
3		[TSPC_DCS]			2.
4		+Config_SDCCH4_G_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_G_sp(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2, arfcn3 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell G. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, 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_SAC CHC4, ta, babr, cch_con, bpm)			
5		[TSPC_DCS]			2.
6		+Config_SDCCH4_G_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn3), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CombinedBCCH_H(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH and SDCCH4 onto the physical channel which represents cell H. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_SAC CHC4, ta, babr, cch_con, bpm)			2.
3		[TSPC_DCS]			
4		+Config_SDCCH4_H_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SAC CHC4, ta, babr, cch_con, bpm)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as FCHH_SCH_BCCH_CCCH for cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			2.
3		[TSPC_DCS]			
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)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NonCombinedBCCH_A_2(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map the second BCCH, CCCH onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NonCombinedBCCH_A_3(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map the third BCCH, CCCH onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NonCombinedBCCH_A_4(acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map the fourth BCCH, CCCH onto the physical channel which represents cell A. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> : 1. For P-GSM900. 2. For DCS1800.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2 : INTEGER; acttype : BITSTRING; slot : SN; tsc : TSC; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set a physical channel and map FCCH, SCH, BCCH, CCCH onto the physical channel which represents cell B for RR testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_A_1_nociph( acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg, Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_A_2(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1. <b>Default</b> : OtherEvents <b>Comments</b> : 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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_A_2_nociph(actypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 2 of cell A for TC_26_6_13_1. <b>Default</b> : OtherEvents <b>Comments</b> : 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, actypeT, 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, actypeT, slotT, tscT, Freqd, C_TCHF_ACCHF_2, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending( TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_B_1(actypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B. <b>Default</b> : OtherEvents <b>Comments</b> : FullRateCh_B_1.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FullRateCh_B_1_nociph( actypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm )			
2		(TCV_Null := OM_CphMd( TCV_chTch, CphMod_01, TCV_CphKey))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_B_1_pwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; pwrg, pwrđ : INTEGER; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B. <b>Default</b> : OtherEvents <b>Comments</b> : 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, pwrđ, ta, babr, cch_con, bpm )			
2		(TCV_Null := OM_CphMd( TCV_chTch, CphMod_01, TCV_CphKey))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_B_1_nociph(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : FullRateCh_B_1_nociph_pwr(acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg , Freqd : FRQPARA; pwrg, pwr : INTEGER; ta : TA; babr, cch_con, bpm : B_3)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHF_ACCH's for instance 1 of cell B.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : Power levels passed as params					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch := C_FACCHF_B_1,			
2		TCV_sacchTch := C_SACCHF_B_1)			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_FACCHF_B_1(63, pwrg, chmod,			
5		acttypeT, slotT, tscT, Freqg,			
6		C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
7		+SysInfo_SacchSending( TCV_sacchTch,			
		TCV_sysinfo5_B, TCV_sysinfo6_B)			
		[TSPC_DCS]			
		+Config_FACCHF_B_1(63, pwr, chmod,			
		acttypeT, slotT, tscT, Freqd,			
		C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)			
		+SysInfo_SacchSending( TCV_sacchTch,			
		TCV_sysinfo5_B, TCV_sysinfo6_B)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[arfcng <> C_Noarfcn]			not hopping
2		+HalfRateCh_A_1_nociph( sub, acttypeT, slotT,			
3		tscT, chmod, FreqTCH( arfcng) , FreqTCH(			
4		arfcnd), ta, babr, cch_con, bpm)			
5		(TCV_Null := OM_CphMd( TCV_chTch,			
6		CphMod_01, TCV_CphKey))			
7		[TSPC_PGSM OR TSPC_EGSM]			
8		(TCV_tch_arfcn:= arfcng)			
9		[TSPC_DCS]			
10		(TCV_tch_arfcn:= arfcnd)			
		[arfcng = C_Noarfcn]			hopping
		+HalfRateCh_A_1_nociph( sub, acttypeT, slotT,			
		tscT, chmod, Freqg , Freqd, ta, babr, cch_con,			
		bpm)			
		(TCV_Null := OM_CphMd( TCV_chTch,			
		CphMod_01, TCV_CphKey))			
<b>Detailed Comments</b> :					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 1 of cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1. <b>Default</b> : OtherEvents <b>Comments</b> : 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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 2 of cell A for TC_26_6_13_1. <b>Default</b> : OtherEvents <b>Comments</b> : used for after time channel.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_chTch1 := OC_SubchOfFacchh( bstring, C_CellA, 2),			
2		TCV_sacchTch1 := OC_SubchOfSacchh( bstring, C_CellA, 2))			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_FACCHH_A_2(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)			
5		+SysInfo_SacchSending( TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
6		[TSPC_DCS]			
7		+Config_FACCHH_A_2(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)			
		+SysInfo_SacchSending( TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 1 of cell B <b>Default</b> : OtherEvents <b>Comments</b> : 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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as TCHH_ACCH's for instance 1 of cell B <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : SDCCH8_A_1(bstring : BITSTRING; acttypeT : BITSTRING; slotT : SN; tscT : TSC; chmod : CHMOD; Freqg ,Freqd : FRQPARA; ta : TA; babr, cch_con, bpm : B_3) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as SDCCH8 channel for instance 1 of cell A. <b>Default</b> : OtherEvents <b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as hopping SDCCH8 channel for instance 2 of cell A, for TC_26_6_13_1. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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) <b>Group</b> : management/ <b>Objective</b> : To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B. <b>Default</b> : OtherEvents <b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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)					
<b>Group</b> : management/					
<b>Objective</b> : To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B For TC_26_6_13_5.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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),			
2		TCV_sacchTch := OC_SubchOfSacch8( bstring, C_CellB, 1))			
3		[TSPC_PGSM OR TSPC_EGSM]			
4		+Config_SDCCH8_B_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
5		+SysInfo_SacchSending( TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
6		[TSPC_DCS]			
7		+Config_SDCCH8_B_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCHC8_1, ta, babr, cch_con, bpm)			
		+SysInfo_SacchSending( TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Adjust_gsmanddcs_powerlvl(powerlevel1,powerlevel2 : INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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)))			
<b>Detailed Comments</b> :					

## 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_083 6	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_083 7	?TIMEOUT T_dly1		(F)	
6		+PostLinkRelEnd( TCV_chTch)			
7	L_083 8	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_083 9	?TIMEOUT T_dly1		(F)	
12		+PostLinkRelEnd( TCV_chTch)			
13	L_084 0	?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					
<b>Test Step Name</b> : AssCh_complete(oldch,newch : LOGICCH; pdu_ass: ASS_CMD_PDU)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To provide a generic test step to Assign a traffic channel. Assign complete expected and verdict is PASS.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_084 1	L!DL_DatRqAssCmd START T_dlyAss	AssCmd(oldch,pdu_ass)	(F)	
2		?TIMEOUT T_dlyAss			
3		+PostLinkRelEnd(oldch)			
4	L_084 2	L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(newch)	(P)	
5		L?DL_DatInAssCom	AssCmp(newch, AsgnCmp_02)		
6		L!MDL_RelRq	MDLRelReq(oldch)		
7	L_084 3	L?DL_EstIn CANCEL T_dlyAss	DLEstInd(oldch)	(F)	
8		L?DL_DatInAssfl	AssFI_any_cau(oldch)		
9		+PostLinkRelEnd(oldch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : AssCh_failure(ch : LOGICCH; pdu_ass: ASS_CMD_PDU; any : BOOLEAN)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To provide a generic test step to Assign a traffic channel. Assign failure expected and verdict is PASS.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_084 4	L!DL_DatRqAssCmd START T_dlyAss(4000)	AssCmd(ch,pdu_ass)	(F)	
2		[any]			
3		?TIMEOUT T_dlyAss			
4	L_084 5	+PostLinkRelEnd(ch)		(P)	
5		L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)		
6		L?DL_DatInAssfl	AssFI_any_cau(ch)		
7	L_084 6	[NOT any]		(F)	
8		?TIMEOUT T_dlyAss			
9		+PostLinkRelEnd(ch)			
10	L_084 7	L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL T_dlyAss	DLEstInd(ch)	(P)	
11		L?DL_DatInAssfl	AssFI_02(ch)		
<b>Detailed Comments</b> :					



## 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					
<b>Test Step Name</b> : 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) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To generate a ASSIGNMENT COMMAND message in case of hopping without starting time. <b>Default</b> : OtherEvents <b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Authentication(ch: LOGICCH; cksn: BITSTRING; rand : RAND) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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)	
<b>Detailed Comments</b> : Authentication fails.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CalcFirstFNofBlock(fn : FN; chtype_targetch : CH_TDMA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> : 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)			
4		ltree_Calc(lowbits, highbits : BITSTRING)			TCH/F + ACCHs case
5		[highbits = '000'B]			
5		[lowbits = '001'B]			
6		+ltree_tchf			TCH/H + ACCHs case
7		[C_Yes]			
8		+ltree_tchh			
9		[C_Yes]			SDCCH /4 + SACCH/ C4 case.
10		[highbits = '001'B]			
11		+ltree_sdcch4			
12		[C_Yes]			SDCCH /8 + SACCH/ C8 case.
13		+ltree_sdcch8			
14		ltree_tchf +FnCalc(fn)			
15		(TCV_temp := (TCV_FrameNumber MOD 13))			Calculate frame number from structured fn type
16		[(TCV_temp = 7) OR (TCV_temp = 11)]			Repeat period for TCH/F is 13 frames

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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 .
20		ltree_tchh +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 .
26		ltree_sdcch8 (TCV_Fn2 := OC_FnInc(fn, (0-3)))			Calculate the first FN of the message .
27		ltree_sdcch4 (TCV_Fn2 := OC_FnInc(fn, (0-3)))			Calculate the first FN of the message .
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : CallProcGen(setup : SETUP_MO_PDU; srv : SERVICES) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To generate a CALL PROCEEDING message which is compatible with input value 'setup'.. <b>Default</b> : OtherEvents <b>Comments</b> : 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.bcrl := setup.bcrl, 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.bcrl := setup.bcrl, 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.
<b>Detailed Comments</b> : 1. BCAP1 is speech and BCAP2 does not require negotiation, the CallProc will contain no BCAP's 2. BCAP1 is speech and BCAP2 requires negotiation 3. BCAP2 is speech and BCAP1 does not require 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					
<b>Test Step Name</b> : CCAssignTCH(slot : SN; tsc : TSC) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Send assign command TCH/H or TCH/F depending on TCV_ChRate and wait for establishment indication. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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(			
2		TCV_chTch, TCV_ChMod),			1.
3		TCV_Null := OM_CphMd(			2. 3.
		TCV_chTch, CphMod_01, TCV_CphKey))			
		+ltree_Asgn			
		+AssCh_complete( TCV_ch, TCV_chTch,			
		TCV_AssCmd)			
		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))			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : CCCH_group_Paging_group(ccd: CCD; imsi: HEXSTRING) <b>Group</b> : Miscellaneous/ <b>Objective</b> : 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. <b>Default</b> : OtherEvents <b>Comments</b> :					
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. combine d
18	L_085 0	[(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 combine d
23	L_085 1	[(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					
<b>Test Step Name</b> : CCEstablishMO_SDCCH4( sub : B_2; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Establish a MO SDCCH/4 connection. This is used in CC testing <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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					
<b>Test Step Name</b> : CCEstablishMO_TCH( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Establish a MO TCH/F or TCH/H connection. This is used in CC testing <b>Default</b> : OtherEvents <b>Comments</b> : 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 channel and 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)			
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))		To match ChReq retrans.
Detailed Comments : 1. To assign TCH/F or TCH/H.					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CCEstablishMT_SDCCH4(ta : TA; sub : B_2; cksn : B_3) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Establish a MT SDCCH/4 connection. This is used in CC testing <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCPage			
2		ACTIVATE( OtherEvents_02)			To match ChReq retrans.
3		L!DL_UdatRqImmss	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
<b>Detailed Comments</b> : 1. To assign a SDCCH/4.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CCEstablishMT_TCH( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Establish a MT TCH/F or TCH/H connection. This is used in CC testing <b>Default</b> : OtherEvents <b>Comments</b> : 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 channel and 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_UdatRqImmss	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
<b>Detailed Comments</b> : 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_gsmnddcs_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					
<b>Test Step Name</b> : CCMModifyTCH(slot :SN; tsc : TSC) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Send channel mode modify command and wait for successful completion. This is used for CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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					
<b>Test Step Name</b> : CCPage <b>Group</b> : Miscellaneous/ <b>Objective</b> : Send paging request and wait for channel request. This is usde in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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					
<b>Test Step Name</b> : CCstatuschk_01(ch: LOGICCH; st : CCSTATE) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To check whether the MS under test is in the CC state 'st' and cause = #30. <b>Default</b> : OtherEventsFail <b>Comments</b> : 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 transaction 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))		
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CCstatuschk_02(ch: LOGICCH; st : CCSTATE; ti_orig, ti_dest: TI) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To check whether the MS under test is in the CC state 'st' and cause = #30. <b>Default</b> : OtherEvents <b>Comments</b> : 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_085 2	[TCV_CCst.csv <> INT_TO_BIT(st, 6)]		( I)	2.
6		+PostLinkRelEnd(ch)			
7	L_085 3	[(TCV_Cau.cau_class <> '001'B) OR (TCV_Cau.cau_va <> '1110'B)]		( I)	3.
8		+PostLinkRelEnd(ch)			
<b>Detailed Comments</b> : 1. Now in CC state 'st' and cause = #30. 2. Not in CC state 'st'. 3. Cause is not #30.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CCstatuschk_03(st : CCSTATE ; Ti : TI)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To check whether the MS under test is in the CC state 'st' and cause = #30.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> : 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	L_085 4	(TCV_TI1 := Ti, TCV_TI1.ti_f := '0'B)	CCStESnd( TCV_ch, CCStatusEq_01( Ti))  CCStRcv( TCV_ch, CCStatus_14( TCV_TI1, st))	(P)	
2		L!DL_DatRqCcstEnq			
3		L?DL_DatInCcst			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CCstatuschk_05(st : CCSTATE; ti : TI; ch: LOGICCH)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To check whether the MS under test is in the CC state 'st' and cause = #30.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> : 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			
8		localtree			
		L!DL_DatRqCcstEnq	CCStESnd( ch, CCStatusEq_01( ti))		
9	L_085 5	L?DL_DatInCcst	CCStRcv( ch, CCStatus_14(TCV_TI1, st))	(P)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Check_Cells_Present (no_of_cells:B_3; sacch:LOGICCH) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To receive a specified number of measurement reports (TSPX_Msr_Cell_Present) describing a specified number of cells present. <b>Default</b> : OtherEvents <b>Comments</b> :					
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]			
4		get_measurements (no_of_cells:B_3; sacch:LOGICCH) 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)			
<b>Detailed Comments</b> : 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_105 1	[(TCV_mindbm >= (TCV_expdbm-TCV_n)) AND (TCV_maxdbm <= (TCV_expdbm+TCV_n))]		(P)	2.
5	L_105 2	[C_Yes]		(F)	
6		localtree_PwrTol			3.
7		[TSPC_PGSM OR TSPC_EGSM]			
8		(TCV_expdbm := 43 -(BIT_TO_INT(exp_pwr) * 2))			
9		[TCV_expdbm <= 5]			
10		(TCV_expdbm := 5, TCV_n := 5)			
11		[(TCV_expdbm > 5) AND (TCV_expdbm <=			
12		11)]			
13		(TCV_n := 5)			
14		[(TCV_expdbm > 11) AND (TCV_expdbm <=			
15		37)]			
16		(TCV_n := 3)			
17		[TCV_expdbm > 37]			
18		(TCV_expdbm := 39, TCV_n := 2)			
19		[TSPC_DCS]			
20		+localtree_DCSPwr			
21		[TCV_expdbm <= 0]			
22		(TCV_expdbm := 0, TCV_n := 5)			
23		[(TCV_expdbm > 0) AND (TCV_expdbm <=			
24		2)]			
25		(TCV_n := 5)			
26		[(TCV_expdbm > 2) AND (TCV_expdbm <=			
27		12)]			
28		(TCV_n := 4)			
29		[(TCV_expdbm > 12) AND (TCV_expdbm <=			
30		34)]			
31		(TCV_n := 3)			
32		[TCV_expdbm > 34]			
33		(TCV_n := 2)			
34		localtree_DCSPwr			
35		[BIT_TO_INT(exp_pwr) <= 28]			
36		(TCV_expdbm := 30 - (BIT_TO_INT(exp_pwr) * 2))			
37		[BIT_TO_INT(exp_pwr) > 28]			

Continued on next page



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]			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : Check_hoaccTiming (Hoacc:HOACC_PARA; exp_ta:BITSTRING) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To check that the received handover access bursts' timing advance is as expected <b>Default</b> : OtherEvents <b>Comments</b> :					
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_105 0	[(TCV_temp1 >= (TCV_expta–2)) AND (TCV_temp2 <= (TCV_expta+2))]		(P)	2.
4	L_105 3	[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]			
<b>Detailed Comments</b> : 1. Convert timing to integer (TCV_expta). 2. Check burst timing is within 2 bits.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Check_Time (maxtime: INTEGER) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+FnArith( TCV_Fn, TCV_Fn1)			
2	L_085 6	[TCV_Time <= maxtime]		(P)	
3	L_085 7	[TCV_Time > maxtime]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Check_Result <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_052 6	[NOT TCV_Res]		(F)	
2	L_052 7	[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_091 1	[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_091 2	[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					
<b>Test Step Name</b> : CheckMTDif(td:OCTETSTRING; y, k:INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To check that the mobile time difference is within +/-2 half bits of the expected value					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_temp1 := OC_OctToInt(td)/8, TCV_temp2 := (k*2 + y) MOD 2097152)			
2	L_106 3	[(TCV_temp1 >= TCV_temp2 - 2) AND (TCV_temp1 <= TCV_temp2 + 2)]		(P)	td must be within +/- 2 half bits
3	L_104 9	[C_Yes]		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CheckTIsInStateU0(mo: BOOLEAN; ch: LOGICCH) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Check that all MO or MT CC entities in the MS are in state U0. This is used in CC testing. <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_085 8	L?DL_DatInRelCmp	RelComRcv( ReleaseCmpRcv( TCV_TI2, Cause_07))	(P)	1.
12		(TCV_Cnt := TCV_Cnt + 1)			
<b>Detailed Comments</b> : 1. Cause #81 (invalid TI value)					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChkMsrmntRpt(index1, index2 : INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : Check whether the mesurment report is correct and assign the verdict accordingly.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_0859 L_0860  L_0861 L_0862	[TSPC_PGSM OR TSPC_EGSM]		(F)	
2		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index1))			
3		[NOT TCV_Res ]			
4		[TCV_Res ]			
5		[TSPC_DCS]		(P)	
6		(TCV_Res := OC_MsrReptChk(TCV_MsrRes, index2))			
7		[NOT TCV_Res ]			
8		[TCV_Res ]			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Cipherring_off(ch: LOGICCH)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CIPHERING_ON(ch: LOGICCH) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Send cipher command and wait for successful completion <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_086 4	L?DL_DatInCphmCom	CphCom(CphModeCmp_01)	(P)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CMSRVC_RQ <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_086 5	L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv(SetupInd_01)	(P)	2)
4	L_086 6	L?DL_DatInRegister	Register_03(RegisterPdu_01)	(P)	2)
5	L_086 7	L?DL_DatInCpData	DatInCpData(TCV_ch, CpDataPdu_any)	(P)	2)
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : DTMFSignalling(n: INTEGER; ti_ms: TI; ti_ss: TI; ch: LOGICCH) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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)			
<b>Detailed Comments</b> :					

## 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_UdatRqImmss	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					
<b>Test Step Name</b> : FnArith(fn, fn1 : FN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> : 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 10.5.2.3 0. TCV_K stores the frame number differenc e. TCV_Tim e stores the time differenc e 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)			
<b>Detailed Comments</b> : 1. A positive 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					
<b>Test Step Name</b> : FnCalc(fn : FN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : Convert t1, t2, t3 obtained from passed FN type into easier to manipulate INTEGER type. <b>Default</b> : OtherEventsFail <b>Comments</b> : 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 10.5.2.3 0
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : GetSubchannel(mainDCCH : LOGICCH ) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : IdentityRequest(par_int:INTEGER; par_mi:MI) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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.
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ImsiAttach (par_mi : MI; ta : TA; mcc, mnc : OCTETSTRING; sim_rmvd : BOOLEAN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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
12		ltree_imsiattach 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_UdatRqImmss	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_cks))	(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
12		ltree_imsiattachIni 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_UdatRqImmss	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_cks))	(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					
<b>Test Step Name</b> : lmsiAttachNoReaction ( par_int: INTEGER; sim_rmvd : BOOLEAN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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())			
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
<b>Detailed Comments</b> :					

## 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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
15	L_087 1	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 released. If ATT=0 no detach has been executed, the channel is still connected.

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ImsiDetachNoReaction (par_int: INTEGER; sim_rmvd : BOOLEAN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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())			
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
<b>Detailed Comments</b> :					

## 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.etc))			
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.etc,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.etc,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					
<b>Test Step Name</b> : MM_LUP(newmi : MI; mcc, newmnc, newlac : OCTETSTRING; locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit5( locup, ta)	LocAcp( TCV_ch, LocUpdtAcp_01( newmi, mcc, newmnc, newlac)) TmsiReallocCmp( TCV_ch)		
2		LIDL_DatRqLupAcp			
3		L?DL_DatInTmsireCom			
4		+ChanRel( TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUP2(newmi:MI; lup_mi:MI; mcc, mnc, oldlac, newlac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_087 3	+MM_LupInit( lup_mi, mcc, mnc, oldlac, locup, cksn, ta)	LocAcp( TCV_ch, LocUpdtAcp_01( newmi, mcc, mnc, newlac)) TmsiReallocCmp( TCV_ch)	(P)	
2		L!DL_DatRqLupAcp			
3		L?DL_DatInTmsireCom			
4		+ChanRel( TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUP3(mcc, mnc, lac: OCTETSTRING; locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_087 4	+MM_LupInit2( locup, ta)	LocAcp(TCV_ch, LocUpdtAcp( mcc, mnc, lac))	(P)	without MI
2		LIDL_DatRqLupAcp			
3		+ChanRel(TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupAndStop( par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA; ch_sacch : LOGICCH; time : INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupAuthRpt( par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : B_3; rand : RAND; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To initialise Location Update and repeated Authentication procedures till T3210 times out.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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]			
5		ltree_auth L!DL_DatRqAuthRq	AuthReq(TCV_ch, AuthRequest( TSPX_CKSNDDef, rand))		
6		?TIMEOUT T_dly			
7		L?DL_DatInAuthRes	AuthRes( AuthResponse)		
8		+ltree_rcvRel			2.
9		+ltree_rcvRel			2.
10		L?DL_DatInAuthRes ltree_rcvRel	AuthRes( AuthResponse)		
11		L?DL_RelIn	DLRelInd_01		2.
12		(TCV_Cntstart := TRUE)			Exit
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : MM_LUPauth1(newtmsi: MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn: B_3; rand : RAND; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MM_LupInit2( locup, ta)	LocAcp( TCV_ch, LocUpdtAcp_01( newtmsi, mcc, mnc, lac))		
2		+Authentication(TCV_ch, cksn, rand)			
3		L!DL_DatRqLupAcp			
4	L_087 7	L?DL_DatInTmsireCom	TmsiReallocCmp( TCV_ch)	(P)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPauth2(newtmsi: MI; lup_mi:MI; mcc, mnc, old_lac, new_lac:OCTETSTRING; locup : B_2; old_cks, new_cks: B_3; rand : RAND; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_087 8	+MM_LupInit3( lup_mi, mcc, mnc, old_lac, locup, old_cks, ta)	LocAcp( TCV_ch, LocUpdtAcp_01( newtmsi, mcc, mnc, new_lac))  TmsiReallocCmp( TCV_ch)	(P)	1.
2		+Authentication(TCV_ch, new_cks, rand)			
3		L!DL_DatRqLupAcp			
4		L?DL_DatInTmsireCom			
<b>Detailed Comments</b> : 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_UdatRqImmss	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					
<b>Test Step Name</b> : MM_LupInit( par_mi : MI; mcc, mnc, lac : OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_088 2	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)	ChReq( ChRequest_09)	(P)	To match ChReq retrans.
2		ACTIVATE(OtherEventsFail_02)			
3		LIDL_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_31( par_mi, mcc, mnc, lac, locup, cksn))		Restore Normal default
5		ACTIVATE(OtherEventsFail)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupInit2( locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInChRq	ChReq( ChRequest_09)		To match ChReq retrans.
2		(TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)			
3		ACTIVATE(OtherEventsFail_02)			
4		LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		Restore Normal default
5		L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_01( locup))		
		ACTIVATE(OtherEventsFail)			
<b>Detailed Comments</b> :					

### 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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_088 3	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					
<b>Test Step Name</b> : MM_LupInit4( locup : B_2; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_UdatRqImmss	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
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupInit5( locup : B_2; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
4	L_088 4	L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_01( locup))	(P)	
5		ACTIVATE(OtherEventsFail)			Restore Normal default
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupInit6( locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_088 5	L?DL_RacInChRq (TCV_Rr := DL_RacInChRq. msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly	ChReq( ChRequest_02)	(P)	To match ChReq retrans.
2		ACTIVATE(OtherEventsFail_02)			
3		L!DL_UdatRqImmss	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))		Restore Normal default
5		ACTIVATE(OtherEventsFail)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUP_tmsirealloc(newtmsi:MI; expectedlup_mi:MI; mcc, mnc, lup_lac, lac: OCTETSTRING; locup : B_2; lup_cksn: BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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))		
<b>Detailed Comments</b> :					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPper( mcc, mnc, lac: OCTETSTRING; locup : B_2; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_088 6	START T_dly(C_T_T3212min)		(P)	
2		?TIMEOUT T_dly			
3	L_088 7	START T_dly( C_T_T3212dif*2)	LocAcp( TCV_ch, LocUpdtAcp( mcc, mnc, lac))	(P)	no MI
4		+MM_LupInit4( locup, ta)			
5	L_088 7	L!DL_DatRqLupAcp			
6	L_088 8	?TIMEOUT T_dly		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPper2(par_timetol : INTEGER; locup : B_2; mcc, mnc, lac : OCTETSTRING; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_088 9	START T_dly(par_timetol)	LocAcp( TCV_ch, LocUpdtAcp( mcc, mnc, lac))	(P)	no MI, fop;
2		+MM_LupInit4( locup, ta)			
3	L_088 9	L!DL_DatRqLupAcp			
4	L_089 0	?TIMEOUT T_dly		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPperauth(oldmi, newmi: MI; mcc, mnc, oldlac, newlac : OCTETSTRING; locup : B_2; cksn: B_3; rand : RAND; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_089 1	START T_dly( C_T_T3212min)	LocAcp( TCV_ch, LocUpdtAcp_01( newmi, mcc, mnc, newlac))  TmsiReallocCmp( TCV_ch)	(P)	T3212 – 15 s  2 * 15 s toleranc e
2		?TIMEOUT T_dly			
3		START T_dly( C_T_T3212dif * 2)			
4		+MM_LupInit3( oldmi, mcc, mnc, oldlac, locup, cksn, ta)			
5		+Authentication( TCV_ch, TCV_cksn, rand)			
6	L_089 2	L!DL_DatRqLupAcp			
7		L?DL_DatInTmsireCom			
8		?TIMEOUT T_dly		(F)	T3212 + 15 s
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPperrej(par_rej:REJCAU; locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_089 3	START T_dly(C_T_T3212min)	LocRej( TCV_ch, LocUpdtRej_01( par_rej))	(P)	
2		?TIMEOUT T_dly			
3		START T_dly(C_T_T3212dif*2)			
4	L_089 4	+MM_LupInit4( locup, ta)	LocRej( TCV_ch, LocUpdtRej_01( par_rej))	(P)	
5		LIDL_DatRqLupRej			
6	L_089 5	+ChanRel(TCV_ch)		(F)	
7		?TIMEOUT T_dly			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPperrej2(par_rej : REJCAU; par_mi : MI; par_toleranz: INTEGER; mcc, mnc, lac: OCTETSTRING; locup : B_2; cksn: BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_089 6	START T_dly( par_toleranz)	LocRej( TCV_ch, LocUpdtRej_01( par_rej))	(P)	
2		+MM_LupInit3( par_mi, mcc, mnc, lac, locup, cksn, ta)			
3		LIDL_DatRqLupRej			
4		+ChanRel(TCV_ch)			
5	L_089 7	?TIMEOUT T_dly		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LUPperrej3(par_mi:MI;par_toleranz:INTEGER; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_089 8	START T_dly( par_toleranz)		(F)	
2		+MM_Luplnit3( par_mi, mcc, mnc, lac, locup, cksn, ta)			
3		+ChanRel(TCV_ch)			
4		?TIMEOUT T_dly			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupRej(par_rej: REJCAU; locup : B_2; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_089 9	+MM_LupInit2( locup, ta)	LocRej( TCV_ch, LocUpdtRej_01( par_rej))	(P)	
2		LIDL_DatRqLupRej			
3		+ChanRel(TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_LupRej2(par_rej: REJCAU; par_mi:MI; mcc, mnc, lac:OCTETSTRING; locup : B_2; cksn : BITSTRING; ta : TA)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_090 0	+MM_LupInit( par_mi, mcc, mnc, lac, locup, cksn, ta)	LocRej( TCV_ch, LocUpdtRej_01( par_rej))	(P)	
2		L!DL_DatRqLupRej			
3		+ChanRel(TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_PwrOrSimOff (sim_rmvd : BOOLEAN)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[(sim_rmvd) AND (TSPC_SIMRmv)]			SIM needs to be removed .   <

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_PwrOrSimOn (sim_rmvd : BOOLEAN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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
<b>Detailed Comments</b> :					

## 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_090 1	L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_04( TCV_TI))	(P)	
13		+ChanRel(TCV_ch)			
14		[NOT TSPC_Serv_TS11]			
15	L_090 2	ltree_check_ti_flag [TCV_TI0.ti_f = '1'B]		(F)	
16		L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_01)		
17		L?DL_RelIn	DLRelInd_01		
18	L_090 3	[TCV_TI0.ti_f = '0'B]		(P)	

**Detailed Comments** :

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_check_ecall2(parexpected_mi: MI; parexpected_cksn: BITSTRING; ta : TA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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_UdatRqImmss	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_090 4	L!DL_DatRqRelCmp	RelComSnd( TCV_ch, ReleaseCmp_04( TCV_TI))	(P)	
13		+ChanRel(TCV_ch)			
14	L_090 5	[NOT TSPC_Serv_TS11]		(P)	
15	L_090 6	ltree_check_ti_flag [TCV_TI0.ti_f = '1'B]		(F)	
16		L!DL_DatRqChRel	ChRel( TCV_ch, ChRelease_01)		
17		L?DL_RelIn	DLRelInd_01		
18	L_090 7	[TCV_TI0.ti_f = '0'B]		(P)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_no_cmsservices(par_int:INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_0908	+InitCall(TCV_Service)		(P)	
2		START T_dly(par_int)			
3		?TIMEOUT T_dly			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : MM_no_paging(par_mi: MI; par_checktime:INTEGER; ccd: CCD; activ_cell : CellID) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+CCCH_group_Paging_group( ccd, TSPX_IMSI)	PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(par_mi))	(P)	
2		+SelectPagingCh( activ_cell)			
3		L!DL_UdatRqPg1Rq START T_dly(par_checktime)			
4	L_090 9	?TIMEOUT T_dly			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : NoReaction(par_int:INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_0910	START T_dly(par_int)		(P)	
2		?TIMEOUT T_dly			
<b>Detailed Comments</b> :					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : RR_hocompE(time_fn_fn1:INTEGER; oldch:LOGICCH; chtype : CH_TDMA) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To finish the HO-procedure. Timing advance = 20 bits period <b>Default</b> : RcvHdOvAcc, OtherEvents <b>Comments</b> : used var's: TCV_ch, TCV_Horf, TCV_Cntref					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_104 3	L?DL_RacInHoacc (TCV_FnBurst := DL_RacInHoacc.fn)	HndOvAccRcv( TCV_ch, HandOverAcc_02( TCV_Horf))	(P)	1.
2		L?DL_EstIn	DLEstInd( TCV_ch)		2.
3		(TCV_HoaccPara := OM_GetHoaccPara(TCV_ch))			
4	L_104 4	[ (OC_OctToInt(TCV_HoaccPara.num_bursts) >= TCV_Cntref) AND (OC_OctToInt(TCV_HoaccPara.num_bursts) <= (TCV_Cntref+20)) ]		(F)	Release the original channel.
5		+localtree_continue			
6		[C_Yes]			
7		+localtree_continue			
8		localtree_continue			
9		(TCV_Fn1:= OM_ReturnFn( TCV_ch))			
10		L?DL_DatInHoCom( TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv( TCV_ch, HandOverCmp_20)		
11		L!MDL_RelRq	MDLRelReq(oldch)		
12		+CalcFirstFNofBlock(TCV_Fn, chtype)			3.
13		+FnArith( TCV_Fn1, TCV_Fn2)			4.
		+CheckFNTolerance(time_fn_fn1, TCV_K, chtype, TCV_Fn1)			5.
<b>Detailed Comments</b> : 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_104 3	[ (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_104 4	[C_Yes]		(F)	
7		+localtree_continue			
8		localtree_continue			
9		(TCV_Fn1:= OM_ReturnFn( TCV_ch))			
10		L?DL_DatInHoCom( TCV_Fn := DL_DatInHoCom.fn)	HndOvCmpRcv( TCV_ch, HandOverCmp_20)		
11		L!MDL_RelRq	MDLRelReq(oldch)		Release the original channel.
12	L_091 1	+FnArith( TCV_Fn1, TCV_Fn) [TCV_Time > time_fn_fn1]		(F)	3.
13	L_091 2	[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					
<b>Test Step Name</b> : RR_hocomp3(time_fn1_fn:INTEGER;oldch:LOGICCH) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To finish the HO-procedure. <b>Default</b> : OtherEvents <b>Comments</b> : 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)	
<b>Detailed Comments</b> : 1) Store first SACCH L1 header from MS to check TA and Power 2) Check of HO-time					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : RRmtcallprepare(ta : TA; rand : RAND) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To prepare a mobile terminating call establishment. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEstRRConn( TCV_slot, TCV_tsc, ta)			
2		+Authentication( TCV_ch, TCV_cks, rand)			
3		+Ciphering_on( TCV_ch)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : RcvSetupOrEsetup(Setup: SETUP_MO_PDU; Esetup : ESETUP_PDU; Ecall : BOOLEAN) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To manage Setup Mobile Originated. <b>Default</b> : OtherEvents <b>Comments</b> :					
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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : SendSeqNo_chk <b>Group</b> : Miscellaneous/ <b>Objective</b> : To check whether the sending sequence number is the same <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_091 5	[TCV_Mt1 = TCV_Mt]		(P)	same N(SD)
2	L_091 6	[TCV_Mt1 <> TCV_Mt]		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : SelectPagingCh(cell : CellID) <b>Group</b> : Miscellaneous/ <b>Objective</b> : 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) <b>Default</b> : OtherEvents <b>Comments</b> :					
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					
<b>Test Step Name</b> : Set_CellChDescr(cell : CellID) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To set the cell channel description <b>Default</b> : <b>Comments</b> : 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					
<b>Test Step Name</b> : SetupRcvMo2(pdu_setup: SETUP_MO_PDU) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To manage Setup Mobile Originated. <b>Default</b> : OtherEvents <b>Comments</b> :					
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					
<b>Test Step Name</b> : Switchcell( old_cell, activ_cell : CellID; lac : OCTETSTRING; subch, cksn, rand : BITSTRING; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To force the MS to reselect cell A					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

## Test Step Dynamic Behaviour

**Test Step Name** : SvcSupportedChk(svc : IA5String)

**Group** : Miscellaneous/

**Objective** : To check whether 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, otherwise 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					
<b>Test Step Name</b> : Timadv_Pwrlvl_chk(k, y : INTEGER; pwrlvl : B_5) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To check whether the power level and the timing advance in L1 head is correct. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_104 5	[ (TCV_temp2 >= 60) OR (TCV_temp2 = 0) OR (TCV_temp1 > 63)]		(I)	
3	L_091 7	[ (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_091 8	[C_Yes]		(F)	
Detailed Comments :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : TmsiReallocation(par_mi : MI; mcc, mnc, lac: OCTETSTRING ) <b>Group</b> : Miscellaneous/ <b>Objective</b> : <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Varinit_tch(arfcngsm, arfcndcs:INTEGER) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To assign an initial arfcn value to TCV_tch_arfcn <b>Default</b> : OtherEventsFail <b>Comments</b> :					
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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Varinit_fix( activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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_ksn := 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : Wait(par_int:INTEGER)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> :					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> : 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			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : WaitForInService <b>Group</b> : Miscellaneous/ <b>Objective</b> : To wait until the MS enters the Idle and updated state. <b>Default</b> : OtherEvents <b>Comments</b> :					
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))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChgLAC_A(t, retr, neci, att : INTEGER; babr, cch_con, bpm : B_3; t3212 : OCTETSTRING; mcc, mnc, lac : OCTETSTRING) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To change the LAC of cell A and of System Information Messages according to used testcase. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_MaxPwrLvIG, C_MaxPwrLvID, 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)			
<b>Detailed Comments</b> :					

## 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_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			
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_MaxPwrLvIG, 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_MaxPwrLvIG, 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_MaxPwrLvID, 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_MaxPwrLvID, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)		

**Detailed Comments** :

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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, mtmcdds : INTEGER; bcchflgsm, bcchfldcs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP; Sub : B_2)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : To send system information messages for the CBMS tests.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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			
5		ltree_sysinfo			
6		[TSPC_PGSM OR TSPC_EGSM] L!DL_UdatRqSysinfo4			
7		L!DL_UdatRqSysinfo2	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))		
8		L!DL_UdatRqSysinfo1_nh	SysInfo2( bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
9		L!DL_UdatRqSysinfo3	SysInfo1_nh( bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		(TCV_sysinf5 := SysInf5(bcchflgsm))	SysInfo3( bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
11		[TSPC_DCS]			
12		L!DL_UdatRqSysinfo4	SysInfo4_CBMS( bcch, mcc, mnc, lac, crh, mtmcdds, 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, mtmcdds, 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 parameters  
 – 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			
5		ltree_sysinfo			
6		[TSPC_PGSM OR TSPC_EGSM]			
7		L!DL_UdatRqSysinfo1	SysInfo1( bcch, cchdgsm, TCV_Max, TCV_Tx, Re)		
8		L!DL_UdatRqSysinfo2	SysInfo2( bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)		
9		L!DL_UdatRqSysinfo3	SysInfo3( bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
10		L!DL_UdatRqSysinfo4	SysInfo4( bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)		
11		(TCV_sysinf5 := SysInf5(bcchflgsm))			
12		[TSPC_DCS]			
13		L!DL_UdatRqSysinfo1	SysInfo1( bcch, cchddcs, TCV_Max, TCV_Tx, Re)		
14		L!DL_UdatRqSysinfo2	SysInfo2( bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)		
15		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, bcflaltltdcs : 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)		4.
21		(TCV_sysinf5 := SysInf5(bcchfldcs))			
22		[TSPX_AltNb]			
23		L!DL_UdatRqSysinfo2	SysInfo2(bcch, bcflaltdcs, TCV_Max, TCV_Tx, Re, nccp)		
24		(TCV_sysinf5 := SysInf5(bcflaltdcs))			
<b>Detailed Comments</b> : 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)		4.
21		(TCV_sysinf5 := SysInf5(bcchfldcs))			
22		[TSPX_AltNb]			
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					
<b>Test Step Name</b> : 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; cchdgs : CCHD; crh, mtmcgs : INTEGER; bcchflgs, bcchflegs : NCD; Re : B_1; bcc : BCC; ncc : NCC; nccp : NCCP)					
<b>Group</b> : Miscellaneous/					
<b>Objective</b> : 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.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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		LIDL_UdatRqSchinfo	SyncInfo( sch, bcc, ncc)		1.
3		(TCV_sysinf6 := SysInf6( ci, mcc, mnc, lac, co, nccp))			
4		LIDL_UdatRqSysinfo1	SysInfo1( bcch, cchdgs, TCV_Max, TCV_Tx, Re)		2.
5		LIDL_UdatRqSysinfo2 (DL_UdatRqSysinfo2.msg.bcchfl.extind := '1'B)	SysInfo2( bcch, bcchflgs, TCV_Max, TCV_Tx, Re, nccp)		
6		LIDL_UdatRqSysinfo2bis	SysInfo2bis( bcch, bcchflegs)		
7		LIDL_UdatRqSysinfo4	SysInfo4( bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
8		(TCV_sysinf5 := SysInf5( bcchflgs), TCV_sysinfo5.bcchfl.extind := '1'B)			
9		(TCV_sysinfo5bis := SysInf5bis( bcchflegs))			
10		LIDL_UdatRqSysinfo3	SysInfo3( bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)		
<b>Detailed Comments</b> : 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_092 0	[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_092 1	[ch = "dummy"]		I	

**Detailed Comments** :



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : SetNECI(att : INTEGER; babr, cch_con, bpm : B_3; t3212, mcc, mnc, lac : OCTETSTRING) <b>Group</b> : Miscellaneous/ <b>Objective</b> : To set the NECI =1. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_MaxPwrLvIG, 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_MaxPwrLvIG, 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_MaxPwrLvIG, 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_MaxPwrLvID, 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_MaxPwrLvID, 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_MaxPwrLvID, TCV_Neci, TCV_Max, TCV_Tx, C_Restablishment)		
<b>Detailed Comments</b> :					

## 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_MaxPwrLvIG, 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_MaxPwrLvIG, 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_MaxPwrLvID, 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_MaxPwrLvID, 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					
<b>Test Step Name</b> : InitCall(srv: SERVICES) <b>Group</b> : OperatorOP/ <b>Objective</b> : To initiate a call of the basic service 'srv'. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitCall( srv))			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : InitCM(srv: SERVICES)					
<b>Group</b> : OperatorOP/					
<b>Objective</b> : To initiate a CM service request.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_104 8	[TSPC_MOsvc]		I	
2		(TCV_Null := OO_InitCall(srv))			
3		[TSPC_NonCallSS]			
4		(TCV_Null := OO_InitNonCallSS())			
5		[TSPC_Serv_TS22]			
6		(TCV_Null := OO_SendMOShortMessage())			
7		[NOT TSPC_MOsvc AND NOT TSPC_Serv_TS22 AND NOT TSPC_NonCallSS]			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : InitNonCallSupp <b>Group</b> : OperatorOP/ <b>Objective</b> : To attempt a non call related supplementary service at the MS under test. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_InitNonCallSS())			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : AtmpShortMsg <b>Group</b> : OperatorOP/ <b>Objective</b> : To attempt a short message service transaction at the MS under test. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Null := OO_SendMOShortMessage())			
Detailed Comments :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : CheckUssdStringDisplayed(strg: IA5String)					
<b>Group</b> : OperatorOP/					
<b>Objective</b> : To check whether the correct USSD String 'strg' is displayed on the MS					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_CheckUssdStringDisplayed(strg))			
2	L_092 2	[TCV_Res]		(P)	
3	L_092 3	[NOT TCV_Res]		(F)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PLMNsCHK					
<b>Group</b> : OperatorOP/					
<b>Objective</b> : To check whether the MS presents a list of available PLMNs.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_PLMNsCHK())			
2	L_092 4	[TCV_Res ]		P	
3	L_092 5	[NOT TCV_Res]		F	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : RFtransCHK <b>Group</b> : OperatorOP/ <b>Objective</b> : To check whether the MS transmits any radio signal. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Res := OO_RFoutputCHK())			
2	L_092 6	[TCV_Res ]		F	
3	L_092 7	[NOT TCV_Res]		(P)	
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PostLinkRelEnd(ch: LOGICCH) <b>Group</b> : Postambles/ <b>Objective</b> : To release the RR connection and bring the MS back to Idle state. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		LIDL_DatRqChRel START T_release	ChRel( ch, ChRelease_01)		
2		L?DL_RelIn	DLRelInd_01		
3	L_092 8	CANCEL		R	1.
4		?TIMEOUT T_release			
5	L_092 9	CANCEL		R	1.
<b>Detailed Comments</b> : 1. Cancel of all running timers and final verdict.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PostMainLinkRel(chnl : LOGICCH) <b>Group</b> : Postambles/ <b>Objective</b> : To release the main signalling link 'ch', and bring the MS back to Idle state. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		LIDL_DatRqChRel START T_release	ChRel( chnl, ChRelease_01)		
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		?TIMEOUT T_release			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChanRel(ch: LOGICCH)					
<b>Group</b> : Postambles/					
<b>Objective</b> : To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_093 0	L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)	(F)	
2		L?DL_RelIn CANCEL T_release	DLRelInd_01		
3		?TIMEOUT T_release			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChanRel_02(ch: LOGICCH)					
<b>Group</b> : Postambles/					
<b>Objective</b> : To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_107 3	L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)	(F)	local end release
2		L?DL_RelIn	DLRelInd_02		
3		L?DL_RelIn CANCEL T_release	DLRelInd_01		
4		L?DL_RelIn CANCEL T_release	DLRelInd_01		
5		?TIMEOUT T_release			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChanRel_P(ch: LOGICCH)					
<b>Group</b> : Postambles/					
<b>Objective</b> : To release the RR connection on the channel TCV_chmaindcch and bring the MS back to Idle state.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_093 1	L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)	(P)	
2		L?DL_RelIn	DLRelInd_01		
3		?TIMEOUT T_release			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : ChanRel_end(ch: LOGICCH) <b>Group</b> : Postambles/ <b>Objective</b> : To release the RR connection and bring the MS back to Idle state. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_093 2	L!DL_DatRqChRel START T_release	ChRel(ch, ChRelease_01)	(P)	1.
2		L?DL_RelIn	DLRelInd_01		
3		CANCEL			
4		?TIMEOUT T_release			
5	L_093 3	CANCEL		(F)	1.
<b>Detailed Comments</b> : 1. Cancel of all running timers.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : RmvForbiddenPlmn( activ_cell : CellID; lac : OCTETSTRING; subch : B_2; cksn : B_3; rand : RAND; arfcngsm, arfcndcs : INTEGER; ccd: CCD; imsi : HEXSTRING)					
<b>Group</b> : Postambles/					
<b>Objective</b> : To remove a forbidden PLMN in the list on SIM.					
<b>Default</b> : OtherEventsFail					
<b>Comments</b> :					
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())			
<b>Detailed Comments</b> :					

## 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					
<b>Test Step Name</b> : BasicServiceMO(svc : SERVICES; rate : RATE) <b>Group</b> : Preambles/ <b>Objective</b> : 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. <b>Default</b> : OtherEvents <b>Comments</b> : 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]			

Continued on next page

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]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
47	L_093 6	+BS4xMO( C_PAD2400, C_2400bs, TSPX_BS_44_ce, TSPX_BS_44_T_NT)			BS44
48		[TCV_Service = C_PAD4800]			BS45
49		+BS4xMO( C_PAD4800, C_4800bs, TSPX_BS_45_ce, TSPX_BS_45_T_NT)			
50		[TCV_Service = C_PAD9600]			BS46
51		+BS4xMO( C_PAD9600, C_9600bs, TSPX_BS_46_ce, TSPX_BS_46_T_NT)			
52		[TCV_Service = C_Packet2400]			BS51
53		+BS5xMO( C_Packet2400, C_2400bs)			
54		[TCV_Service = C_Packet4800]			BS52
55		+BS5xMO( C_Packet4800, C_4800bs)			
56		[TCV_Service = C_Packet9600]			BS53
57		+BS5xMO( C_Packet9600, C_9600bs)			
58		[TCV_Service = C_AltSpchData]			BS61
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_altermate)			
60		[TCV_Service = C_SpchData]			BS81
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)			
62		[C_Yes]		I	IXIT error
63		local_init (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]			
68		LocalGenerateModemType [TCV_Service = C_Async300]			BS21
69		[TSPX_BS_21_ce = C_transparent]			
70		(TCV_MODEM.v_abt1 := C_modemt_V21)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
71		[(TSPX_BS_21_ce = C_nottransparent) 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_nottransparent) 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_nottransparent) 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_nottransparent) 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_nottransparent) 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_nottransparent) 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

Test Step Dynamic Behaviour					
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : BasicServiceMOorTelephony(svc : SERVICES; rate : RATE)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To get a MO SETUP message with right BC IE.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : BasicServiceMT(svc : SERVICES; rate : RATE) <b>Group</b> : Preambles/ <b>Objective</b> : 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. <b>Default</b> : OtherEvents <b>Comments</b> : 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_altermate, 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

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)] local_IFsetup_Telephony		I	
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
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : BasicServiceMTorTelephony(svc : SERVICES; rate : RATE) <b>Group</b> : Preambles/ <b>Objective</b> : To get a MT SETUP message with right BC IE. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : BS2xMO( srv : SERVICES; sacp: B_3; both : BOOLEAN; itc1 : B_3; ur : B_4; modem : B_5; ce : B_2) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MO SETUP message with appropriate Bcap and LLC for BS2x service. <b>Default</b> : OtherEvents <b>Comments</b> :					
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
8		local_bcap			
9		[NOT both]			
10		[ TCV_ce = C_nottransparent]			
11		[itc1 = C_UDI]			
12		+local_BS2x_UDI_NT(C_nottransparent, sacp)			
13		[itc1 = C_3100Hz]			
14		+local_BS2x_3100_NT(C_nottransparent, sacp)			
15		[ TCV_ce = C_transparent]			CE:T only MS
16		[itc1 = C_UDI]			
17		+local_BS2x_UDI_T(sacp)			
18		[itc1 = C_3100Hz]			
19		+local_BS2x_3100_T(sacp)			
20		[both]			
21		[ TCV_ce = C_transparent]			
22		[itc1 = C_UDI]			
23		+local_BS2x_UDI_Tboth(TCV_CE,sacp)			
24		[ itc1 = C_3100Hz]			3.1kHz
25		+local_BS2x_3100_Tboth(TCV_CE, sacp)			
26		[(TCV_ce = C_nottransparent)]			
27		[itc1 = C_UDI]			

Continued on next page

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)			
30		local_BS2x_3100_NT(cel: B_2; sacp : B_3) (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
31		local_BS2x_UDI_NT(cel: B_2; sacp : B_3) (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
32		local_BS2x_3100_T(sacp : B_3)			
33		[ur = C_9600bs] (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
36		local_BS2x_UDI_T(sacp : B_3)			
37		[ur = C_9600bs] (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
40		local_BS2x_3100_Tboth(cel: B_2; sacp : B_3) [ur <> C_9600bs]			

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
44		local_BS2x_UDI_Tboth(cel: B_2; sacp : B_3) [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 combine 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 combine d with 11.8.2.1 .1.4, CE and structure without exact match
48		local_setupmsg [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))			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
52		local_selectCe			
53		[both]			
54		[(ur = C_300bs) OR (ur = C_120075bs) OR ( ur = C_4800bs)]			
55		(TCV_ce := C_nottransparent)			
56		[(ur = C_1200bs) OR (ur = C_2400bs) OR ( ur = C_9600bs)]			
57		(TCV_ce := C_transparent)			
58		[NOT both]			
59	L_093	local_pixitvaluechk		I	IXIT error
60	9	[(ce <> C_transparent) AND ( ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
61	L_094	[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
62	0	[(sacp <> C_l440_450) AND (sacp <> C_X28_nond)]			IXIT values OK
	1	[C_Yes]			
<p><b>Detailed Comments</b> : 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.</p> <p>The algorithm for selecting parameters:</p> <p>IF (TSPX_BS_2x_T_NT)</p> <p>    TCV_ce := C_nottransparent</p> <p>ELSE</p> <p>    TCV_ce := TSPX_BS_2x_ce</p> <p>use (TCV_ce, TSPX_BS_2x_itc1, TSPX_BS_2x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO</p>					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : BS2xMT( srv : SERVICES; more, both : BOOLEAN; itc1, itc2 : B_3; ur : B_4; modem : B_5; ce : B_2) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MT SETUP message with appropriate Bcap for BS2x service. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_094 2	+local_main		I	1st SETUP  Ini ch mode  2nd SETUP  3.1kHz  UDI  3.1 kHz  UDI
2		+local_IFsetup			
3		local_main			
4		(TCV_srv := srv, TCV_itc := itc1)			
5		+local_bcap1			
6		(TCV_Setup_mt := Setup_20( TCV_BcapMT1, TI_02))			
7		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
8		+local_bcap2			
9		(TCV_Setup_mt1:= Setup_20( TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)			
10		local_bcap1			
11		[ itc1 = C_3100Hz]			
12		[both OR ( ce = C_nottransparent)]			
13		+local_BS2x_3100_NT(C_nottransparent)			
14		[NOT both AND ( ce = C_transparent)]			
15		+local_BS2x_3100_T			
16		[ itc1 = C_UDI]			
17		[both OR ( ce = C_nottransparent)]			
18		+local_BS2x_UDI_NT(C_nottransparent)			
19		[NOT both AND ( ce = C_transparent)]			
20		+local_BS2x_UDI_T			
21		[ (itc1 <> C_3100Hz) AND (itc1 <> C_UDI)]			
22		local_bcap2			
23		+local_itc			
24		+local_bcap			
25		(TCV_BcapMT2 := TCV_BcapMT1)			
26		local_itc			
27		(TCV_itc2 := itc1)			
28		[ more ]			
29		(TCV_itc2 := itc2)			
30		[NOT more]			
31		local_bcap			
32		[both AND (TCV_itc2 = C_3100Hz)]			
		+local_BS2x_3100_T			
		[both AND ( TCV_itc2 = C_UDI)]			
		+local_BS2x_UDI_T			
		[NOT both AND (TCV_itc2 = C_3100Hz)]			
		+local_BS2x_3100_NT( C_BothT)			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
33	L_094 3	[NOT both AND ( TCV_its2 = C_UDI)]		I	UDI
34		+local_BS2x_UDI_NT( C_BothT)			
35		[(TCV_its2 <> C_3100Hz) AND (TCV_its2 <> C_UDI)]			
		local_BS2x_3100_NT(ctl: B_2)			
36		[ TSPX_TE_FLCT = C_Inband]			11.8.1.1 .1.2
37		(TCV_BcapMT1 := BcapX_MT( C_3100Hz, C_SDUIegrity, 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)			
38		[ TSPX_TE_FLCT = C_Nocontrol]			
39		(TCV_BcapMT1 := BcapX_MT( C_3100Hz, C_SDUIegrity, 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		[ (TSPX_TE_FLCT = C_Outband) OR ((TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol))]			
41		local_BS2x_UDI_NT(ctl: B_2)			
42		[ TSPX_TE_FLCT = C_Outband]			11.8.1.1 .1.4
43		(TCV_BcapMT1 := Bcap_MT( C_UDI, C_SDUIegrity, 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)			
44		[ TSPX_TE_FLCT = C_Inband]			
45		(TCV_BcapMT1 := BcapX_MT( C_UDI, C_SDUIegrity, 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
46		[ TSPX_TE_FLCT = C_Nocontrol]			
47		(TCV_BcapMT1 := BcapX_MT( C_UDI, C_SDUIegrity, 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)			
48	L_094 5	[ (TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)]		I	
		local_BS2x_3100_T			
48		[ur = C_9600bs]			

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_094 6	[NOT TCV_SpecialCase]		I	Paramet er error
<b>Detailed Comments</b> : 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					

### 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					
<b>Test Step Name</b> : BS3xMO( srv : SERVICES; both : BOOLEAN; itc1, sacp1 : B_3; ur : B_4; ce : B_2; modem : B_5) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MO SETUP message with appropriate Bcap and LLC for BS3x service. <b>Default</b> : OtherEvents <b>Comments</b> :					
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
8		local_bcap [NOT both]			
9		[ TCV_ce = C_nottransparent]			
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_nottransparent)			
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			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
29	L_095 1	[both]		I	7.
30		[ TCV_ce = C_transparent]			
31		[itc1 = C_UDI]			
32		[sacp1 = C_X32]			
33	L_095 2	[sacp1<> C_X32]		I	3.1kHz 8.
34		+local_BS3x_UDI_T(sacp1)			
35		[ itc1 = C_3100Hz]			
36		[sacp1 = C_X21]			
37	L_095 3	[sacp1 = C_I440_450]		I	5.
38		+local_BS3x_3100_T			
39		[sacp1 = C_X32]			
40		(TCV_bcapListIndicator := TCV_bcapListIndicator + 1)			
41	L_095 4	+local_BS3x_3100_X32_NT(TCV_CE)		I	3.1kHz 6.
42		[(TCV_ce = C_nottransparent)]			
43		[itc1 = C_UDI]			
44		[sacp1 = C_X32]			
45	L_095 4	+local_BS3x_UDI_X32_NT		I	11.8.2.2 .1.1
46		[sacp1 <> C_X32]			
47		[ itc1 = C_3100Hz]			
48		[sacp1 <> C_X32]			
49		[sacp1 = C_X32]			
50		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
51		+local_BS3x_3100_X32_Tboth(TCV_CE)			
52		local_setupmsg			
53		[itc1 = C_UDI]			
54		(TCV_Setup_mo := Setup_10_UDI( TCV_BcapMO1, Llcmp_BS3x_UDI, Hlcmp_AnyOrOmit))			
55		[itc1 = C_3100Hz]			
56		(TCV_Setup_mo := Setup_10_3100( TCV_BcapMO1, Llcmp_BS3xOrBS61sOrBS81s_3100, Hlcmp_AnyOrOmit))			
57		local_BS3x_3100_T			
58		[ur = C_9600bs]			
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_16kbs, C_parity_NA, C_transparent, modem))			
60		[ur <> C_9600bs]			

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))  local_BS3x_UDI_T(sacp : B_3)			11.8.2.2 .1.1
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
64		local_BS3x_3100_X32_T [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
68		local_BS3x_3100_X32_NT(ce2 : B_2) (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_flt), TCV_bcapListIndicator))			11.8.2.2 .1.4
69		local_BS3x_UDI_X32_NT (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_nottransparent, C_modemt_none, C_X25_flt), TCV_bcapListIndicator), TCV_uil1p := C_rate_adaption_X31)			11.8.2.2 .1.5
70		local_BS3x_3100_X32_Tboth(ce2 : B_2) [ur = C_9600bs]			

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
74		local_selectCe			
75		[both]			
76		[(ur = C_300bs) OR (ur = C_120075bs) OR ( ur = C_4800bs)]			
77		(TCV_ce := C_transparent)			
78		[(ur = C_1200bs) OR (ur = C_2400bs) OR ( ur = C_9600bs)]			
79		(TCV_ce := C_nottransparent)			
80		[NOT both]			
81	L_095 5	local_pixitvaluechk [(ce <> C_transparent) AND ( ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
82	L_095 6	[(itc1 <> C_UDI) AND (itc1 <> C_3100Hz)]		I	IXIT error
83	L_095 7	[(sacp1 <> C_I440_450) AND (sacp1 <> C_X21) AND (sacp1 <>C_X32)]		I	IXIT error
84	L_095 8	[(ur = C_1200bs) AND (sacp1 = C_X32)]		I	4.
85		[C_Yes]			IXIT values OK, but combina tion not checked yet
<b>Detailed Comments</b> : 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.					

## 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\_nottransparent

ELSE

TCV\_ce := TSPX\_BS\_3x\_ce

use (TCV\_ce, TSPX\_BS\_3x\_jtc1, 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			
3		local_main (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_095 9	[( 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

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
27	L_096 0	[(NOT more_itc) AND (NOT more_sacp) AND ((NOT(itc1=C_3100Hz)) OR (NOT(sacp1=C_X32))))]  local_bcap1		I	1st SETUP
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)			
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_nottransparent, ur, srv)			
38		[NOT (sacp1 = C_X32)]			
39		+Chmod(TCV_ChRate, TCV_ce, ur, srv)			
40		[(itc1 <> C_3100Hz) AND ( itc1 <> C_UDI)]			
		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		[(itc2 <> C_3100Hz) AND ( itc2 <> C_UDI)]			
		local_3100(sacp : B_3)			
57		[ sacp = C_l440_450 ]			
58		+local_BS3x_3100			
59		[ sacp = C_X32 ]			
60		[NOT ( ur= C_1200bs)]			
61		[both OR (ce = C_nottransparent)]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
62		+local_BS3x_3100_X32_NT(C_nottransparent)			
63		(TCV_ce := C_nottransparent)			
64		[NOT both AND (ce = C_transparent)]			
65		+local_BS3x_3100_X32_T			
66	L_096 2	[ur= C_1200bs]		I	BS31 not support X32
67	L_096 3	[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
68		local_3100_1(sacp : B_3)			
69		[sacp = C_I440_450]			
70		+local_BS3x_3100			
71		[sacp = C_X32]			
72	L_096 4	+local_BS3x_3100_X32_NT(C_BothT)			
73		[(sacp <> C_I440_450) AND (sacp <> C_X32)]		I	
74		local_UDI(sacp : B_3)			
75		[sacp = C_I440_450]			
76		[ur = C_9600bs]			
77		+ltree_BS3x_UDI_I440_T( C_ir_16kbs)			
78		[ur <> C_9600bs]			
79		+ltree_BS3x_UDI_I440_T( C_ir_8kbs)			
80		[sacp = C_X21]			
81		[ur = C_9600bs]			
82		+ltree_BS3x_UDI_X21_T( C_ir_16kbs)			
83		[ur <> C_9600bs]			
84		+ltree_BS3x_UDI_X21_T( C_ir_8kbs)			
85		[sacp = C_X32]			
86	L_096 5	[ur = C_1200bs]		I	
87	L_096 6	[(sacp <> C_I440_450) AND (sacp <> C_X21) AND (sacp <> C_X32)]		I	
88		ltree_BS3x_3100_T(ir : B_2; modemt : B_5) (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
89		ltree_BS3x_UDI_I440_T(ir : B_2) (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)			



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))  ltree_BS3x_3100_X32_T(ir : B_2; modemt : B_5)			11.8.1.2 .1.2
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))  ltree_BS3x_3100_X32_NT(modemt : B_5; ce1 : B_2)			11.8.1.2 .1.3
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_flt))  ltree_BS3x_UDI_X32_NT			11.8.1.2 .1.4
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_flt))  local_BS3x_3100			11.8.1.2 .1.5
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_096 7	[ (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]  local_BS3x_3100_X32_NT(ce2 : B_2)		I	
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_096 8	[ (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]  local_BS3x_3100_X32_T		I	
108		[ ur = C_2400bs]			
109		+ltree_BS3x_3100_X32_T( C_ir_8kbs, C_modemt_V22bis)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
110	L_096 9	[ur = C_4800bs]		I	
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		[ (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]			
		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	L_097 0	START T_dly(C_T_Wait)		I	Paramet er error
120		?TIMEOUT T_dly			
121		[NOT TCV_SpecialCase]			

**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\_sacp1 = 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)

**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= l440
        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= l440 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= l440 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=l440 no second Bearer Capability
      IF sacp=X21 no second Bearer Capability
      IF sacp= X32 no second Bearer Capability
```

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : BS4xMO( srv : SERVICES; ur : B_4; ce : B_2; both : BOOLEAN) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MO SETUP message with appropriate Bcap and LLC for BS4x service. <b>Default</b> : OtherEvents <b>Comments</b> :					
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
8		local_bcap			
9		[NOT both]			
10		[ TCV_ce = C_nottransparent]			
11		+local_BS4x_UDI_NT(C_nottransparent)			
12		[ TCV_ce = C_transparent]			CE:T only MS
13		[ur = C_9600bs]			
14		+local_BS4x_UDI_T(C_ir_16kbs)			
15		[( ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]			
16		+local_BS4x_UDI_T(C_ir_8kbs)			
17		[both]			
18		[ TCV_ce = C_transparent]			
19		(TCV_bcapListIndicator := TCV_bcapListIndicator + 1)			
20		+local_BS4x_UDI_Tboth(TCV_CE)			
21		[(TCV_ce = C_nottransparent)]			
22		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
23		+local_BS4x_UDI_NT(TCV_CE)			
		local_BS4x_UDI_T(ir : B_2)			
		(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

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
24		local_BS4x_UDI_NT(ce1 : B_2) [( 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_SDUIegrity, 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_SDUIegrity, 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
28		local_BS4x_UDI_Tboth(ce1 : B_2) [( 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 combine 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 combine d with 11.8.2.3 .1.1, CE, IR and structure without exact match
32	L_097 1	local_pixitvaluechk [(ce <> C_transparent) AND ( ce <> C_nottransparent) AND (NOT both)]		I	IXIT error
33		[C_Yes]			IXIT values OK
		local_selectCe			

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_nottransparent)			
37		[(ur = C_1200bs) OR (ur = C_2400bs) OR ( ur = C_9600bs)]			
38		(TCV_ce := C_transparent)			
39		[NOT both]			
40		(TCV_ce := ce)			
<p><b>Detailed Comments</b> : 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.</p> <p>The algorithm for selecting parameters:</p> <pre> IF (TSPX_BS_4x_T_NT)     IF (user rate is one of the C_300bs, C_120075bs, C_4800bs)         TCV_ce := C_nottransparent     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 </pre>					

Test Step Dynamic Behaviour					
<p><b>Test Step Name</b> : BS5xMO( srv : SERVICES; ur : B_4)</p> <p><b>Group</b> : Preambles/</p> <p><b>Objective</b> : To generate an MO SETUP message with appropriate Bcap for BS5x service.</p> <p><b>Default</b> : OtherEvents</p> <p><b>Comments</b> :</p>					
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_SDUIegrity, 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_nottransparent, 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_nottransparent, ur, srv)			channel mode
5		(TCV_Null := OO_IFsetup_BS5x_MO(TCV_srv, TCV_ur, TCV_ChRate))			
<p><b>Detailed Comments</b> : 1. Bearer Caoability is coded according to section 11.8.2.4.1 of GSM 11.10 ver 4.16</p> <p>2. low layer compatibility is coded according to section B.2.5 of GSM 07.01 ver 4.90</p>					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : BS61or81MO( srv : SERVICES; async, both: BOOLEAN; a_ur1: B_4; ce : B_2; sync : BOOLEAN; s_ur1: B_4; ri : B_8) <b>Group</b> : Preambles/ <b>Objective</b> : To get a MO SETUP message with right BC IE and LLC for BS61 or BS81 service. <b>Default</b> : OtherEvents <b>Comments</b> :					
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_nottransparent) AND (NOT both)]			CE:NT only MS
26		+local_BS61or81_A_NT(TCV_ur, C_nottransparent, C_SDUIntegrity, C_nirr_dontcare, C_ir_16kbs)			
27		[ (TCV_ce = C_nottransparent) 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)			



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)			
50		local_BS61or81_A_NT(ur : B_4; ce : B_2; struc : B_2 ; nirr :B_1; ir : B_2)			
51		(TCV_ir := C_ir_16kbs)			
52		[ ur = C_300bs]			
53		(TCV_MODEM := V21OrAbt1)			
54		(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
55		[ ur = C_1200bs]			
56		(TCV_MODEM := V22OrAbt1)			
57		(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
58		[ ur = C_120075bs]			
59		(TCV_MODEM := V23OrAbt1)			
60		(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
61		[ ur = C_2400bs]			
62		(TCV_MODEM := V22bisOrV26terOrAbt1)			
63		+local_BumpListIndicator (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)			

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_l440_450, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce, TCV_MODEM.v_abt1, C_uil2p_dontcare)) local_BumpListIndicator			11.8.2.5 .2
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_l440_450, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, modemt)) local_pixitvaluechk			11.8.2.5 .3
74	L_097 2	[(ce <> C_transparent) AND ( ce <> C_nottransparent) AND (NOT both) AND async]		I	IXIT error
75	L_097 3	[(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_097 4	[(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
78		local_selectSaAndCe [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_nottransparent)			
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)			
89		local_setupmsg [TCV_sa = C_Asynchronous]			
90		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			

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
<p><b>Detailed Comments :</b> 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.</p> <p>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_nottransparent  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</p> <p>The algorithm for selecting parameters for BS61 basice service is the same as above except using corresponding IXIT parameters.</p>					

## 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			
3		local_main (TCV_srv := srv)			
4		(TCV_BcapMT1 := Bcap_Speech_MT)			
5		[async]			If asynchr o
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)			

Continued on next page

Test Step Dynamic Behaviour						
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
23	L_107 1	(TCV_Setup_mt1 := Setup_21( ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)		I	2nd SETUP	
24		[NOT t_nt_ur1]			2nd SETUP	
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)				
27		[sync]			If synchro	
28		+local_bcap2S(s_ur1)			1st SETUP	
29		(TCV_Setup_mt := Setup_21( ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := s_ur1, TCV_sa := C_Synchronous)				
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]			2nd SETUP	
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)				
35		[NOT s_more_ur]			no second BC	
36		[C_Yes]				
37		local_bcap2A(ur : B_4; ce2: B_2)				
38		[ ce2 = C_transparent]				
39		[ ur = C_300bs]				
40		+local_BS61or81_A_T( C_ir_8kbs, ur, C_modemt_V21)				
41		[ ur = C_1200bs]				
42		+local_BS61or81_A_T( C_ir_8kbs, ur, C_modemt_V22)				
43		[ ur = C_2400bs]				
44		+local_BS61or81_A_T( C_ir_8kbs, ur, C_modemt_V22bis)				
45		[ ur = C_4800bs]				
46		+local_BS61or81_A_T( C_ir_8kbs, ur, C_modemt_V32)				
47		[ ur = C_9600bs]				
48		+local_BS61or81_A_T( C_ir_16kbs, ur, C_modemt_V32)				

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
48	L_097 5	[ (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		[ (ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]			
61		[ ce2 = C_nottransparent]			
62		[ ur = C_300bs]			
63		+local_BS61or81_A_NT(ur, C_modemt_V21, C_nottransparent)			
64		[ ur = C_1200bs]			
65		+local_BS61or81_A_NT(ur, C_modemt_V22, C_nottransparent)			
66		[ ur = C_2400bs]			
67		+local_BS61or81_A_NT(ur, C_modemt_V22bis, C_nottransparent)			
68		[ ur = C_4800bs]			
69		+local_BS61or81_A_NT(ur, C_modemt_V32, C_nottransparent)			
70		[ ur = C_9600bs]			
71		+local_BS61or81_A_NT(ur, C_modemt_abt1, C_nottransparent)			
72	L_097 7	[ (ur <> C_300bs) AND (ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	
73	L_097 8	[ ce2 = C_BothNT]		I	
		local_bcap2S(ur : B_4)			
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]			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
79	L_097 9	+local_BS61or81_S_T( C_ir_8kbs, ur, C_modemt_V32)		I	11.8.1.3 .1
80		[ ur = C_9600bs]			
81		+local_BS61or81_S_T( C_ir_16kbs, ur, C_modemt_V32)			
82		[( ur <> C_1200bs) AND (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]			
		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))  local_BS61or81_A_NT(ur : B_4; modemt : B_5; cel : B_2)			
84		[ TSPX_TE_FLCT = C_Outband]			11.8.1.3 .2
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))			
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))			
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_098 1	[( TSPX_TE_FLCT <> C_Outband) AND (TSPX_TE_FLCT <> C_Inband) AND (TSPX_TE_FLCT <> C_Nocontrol)]  local_BS61or81_S_T( ir : B_2; ur : B_4; modemt : B_5)		I	11.8.1.3 .3
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))  local_bcapa				
92	[t_nt_ur1 OR (ce = C_nottransparent)]				
93	+local_bcap2A(a_ur1, C_nottransparent)				
94	(TCV_ce := C_nottransparent)				
95	[NOT t_nt_ur1 AND (ce = C_transparent)]				
96	+local_bcap2A(a_ur1, C_transparent)				

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
97		(TCV_ce := C_transparent)			
98		local_IFsetup			
99		[TCV_supported]			
100		(TCV_Null := OO_IFsetup_BS61orBS81_MT(TCV_srv, TCV_ur, TCV_sa))			
101		[NOT TCV_supported]			
102		[TCV_SpecialCase]			
103		START T_dly(C_T_Wait)			
104	L_098 2	?TIMEOUT T_dly [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					
<b>Test Step Name</b> : CallCfmGen(svc : SERVICES; rate : RATE)					
<b>Group</b> : Preambles/					
<b>Objective</b> : 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.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : Used only for TC_11_2					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_098 3	+local_init			Default values
2		[TCV_Service = C_Telephony]			TS11 – Non EFR Mobile
3		[(NOT TSPC_EFR_Speech_v2) AND (NOT TSPC_EFR_Speech_v3)]			
4		(TCV_BcapMO1 := Bcap_Speech_MO(TCV_Rchr))			
5		+local_callcfm1			TS11 – EFR Mobile
6		[TSPC_EFR_Speech_v2 OR TSPC_EFR_Speech_v3]			
7		(TCV_BcapMO1 := Bcap_Speech_Efr_MO(TCV_Rchr))			
8		+local_callcfm1			
9		[TCV_Service = C_AltSpchFax]			TS61 IXIT error
10		[rate = C_Full]			
11		+local_TS61( C_AltSpchFax)			
12		[rate <> C_Full]			
13	L_098 4	[TCV_Service = C_AutoFax]			TS62 IXIT error
14		[rate = C_Full]			
15		+local_TS62( C_AutoFax)			
16		[rate <> C_Full]			
17		[TCV_Service = C_Async300]		BS21	
18		+local_BS2x( C_Async300, C_300bs, TCV_MODEM.v_abt1, TSPX_BS_21_ce )			
19		[TCV_Service = C_Async1200]		BS22	
20		+local_BS2x( C_Async1200, C_1200bs, TCV_MODEM.v_abt1, TSPX_BS_22_ce )			
21		[TCV_Service = C_Async120075]		BS23	
22		+local_BS2x( C_Async120075, C_120075bs, TCV_MODEM.v_abt1, TSPX_BS_23_ce )			
23		[TCV_Service = C_Async2400]		BS24	
24		+local_BS2x( C_Async2400, C_2400bs, TCV_MODEM.v_abt1, TSPX_BS_24_ce )			
25		[TCV_Service = C_Async4800]		BS25	
26		+local_BS2x( C_Async4800, C_4800bs, TCV_MODEM.v_abt1, TSPX_BS_25_ce )			
27		[TCV_Service = C_Async9600]		BS26	
28		+local_BS2x( C_Async9600, C_9600bs, TCV_MODEM.v_abt1, TSPX_BS_26_ce )			
29		[TCV_Service = C_Sync1200]			

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Test Step Dynamic Behaviour								
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments			
30	L_098 5	+local_BS3x( C_Sync1200, TSPX_BS_31_sacp1, C_1200bs, C_transparent, TCV_MODEM.v_abt1)		I	BS31			
31		[TCV_Service = C_Sync2400]			BS32			
32		+local_BS3x( C_Sync2400, TSPX_BS_32_sacp1, C_2400bs, TSPX_BS_32_X32_ce, TCV_MODEM.v_abt1)						
33		[TCV_Service = C_Sync4800]			BS33			
34		+local_BS3x( C_Sync4800, TSPX_BS_33_sacp1, C_4800bs, TSPX_BS_33_X32_ce, TCV_MODEM.v_abt1)						
35		[TCV_Service = C_Sync9600]			BS34			
36		+local_BS3x( C_Sync9600, TSPX_BS_34_sacp1, C_9600bs, TSPX_BS_34_X32_ce, TCV_MODEM.v_abt1)						
37		[TCV_Service = C_AltSpchData]			BS61			
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_alterate)						
39		[TCV_Service = C_SpchData]			BS81			
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)						
41		[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		[(ce <> C_transparent) AND ( ce <> C_nottransparent)]					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_l440_450, ce, TCV_ChRate))				ask test operator to configur e the MS		

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
51		local_callCfm_BS2x(ce1: B_2; ur1 : B_4; modem1 : B_5)			
52		[ce1 = C_transparent]			
53		[ur1 = C_9600bs]			
54		(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
55		+local_callcfm1			
56		[ur1 <> C_9600bs]			
57		(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
58		+local_callcfm1			
59		[ce1 = C_nottransparent]			
60		(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_nottransparent, modem1, C_uil2p_dontcare))			11.8.2.1 .1.2
61	L_098 7	+local_callcfm1			
62		local_BS3x( svc : SERVICES; sacp : B_3; ur : B_4; ce : B_2; modem : B_5)			
63		[[ (ce <> C_transparent) AND ( ce <> C_nottransparent)) OR ((sacp <> C_I440_450) AND (sacp <> C_X32))]		I	IXIT value error
64		[C_Yes]			
65		+local_callCfm_BS3x(ce, ur, sacp, modem)			generate call confirm ed msg
66		(TCV_Null := OO_IFsetup_BS2xorBS3x_MO(svc, C_3100Hz, sacp, ce, TCV_ChRate))			ask operator to configur e the MS
67		local_callCfm_BS3x(ce1: B_2; ur1: B_4; sacp1: B_3; modem1 :B_5)			
68		[sacp1 = C_I440_450]			
69		[ur1 = C_9600bs]			

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_nottransparent]			
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_098 8	[(ce_a1 <> C_transparent) AND ( ce_a1 <> C_nottransparent) AND async1]		I	IXIT error
84	L_098 9	[(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_099 0	[(ur_s1 <> C_1200bs) AND (ur_s1 <> C_2400bs) AND (ur_s1 <> C_4800bs) AND (ur_s1 <> C_9600bs) AND sync1]		I	IXIT error

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 : RPl)			
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_nottransparent]			
111		(TCV_ur := ur_a, TCV_sa := C_Asynchronous, TCV_ce := C_nottransparent)			
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]			

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; modempt : 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, modempt))			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, modempt))			11.8.2.5 .1
149		+local_callcfm2(rpi)			

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
150		local_Bs61or81_async_NT(usrrt1 : B_4; modemtp2 : B_5; rpi : RPI)  (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_nottransparent, modemtp2, C_uil2p_dontcare))			11.8.2.5 .2
151		+local_callcfm2(rpi)			
152		local_Bs61or81_sync_T(usrrt2 : B_4; modemtp2: B_5; rpi2 : RPI)			
153		[usrrt2 <> C_9600bs]  (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)			
158		local_TS61(svc : SERVICES) (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_nottransparent)]		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))			
165		local_TS62(svc : SERVICES) (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_nottransparent)]		I	IXIT paramet er error
168		[C_Yes]			
169		+local_Bcap_TS6x			

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_nottransparent]			
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_nottransparent, 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_nottransparent) ]			
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)			



Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
192		[(TSPX_BS_22_ce = C_nottransparent) ]			
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_nottransparent]			
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_nottransparent) ]			
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_nottransparent) ]			
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_nottransparent) ]			
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
<b>Detailed Comments</b> : 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	L_099 5	+local_tree		I	dual mode call
2		[(svc = C_AltSpchData) OR (svc = C_SpchData) OR ( svc = C_AltSpchFax)]			
3		(TCV_ChMod.mode := C_ChMod_r)			
4		[(svc<> C_AltSpchData) AND (svc <> C_SpchData) AND ( svc <> C_AltSpchFax)]			
5		local_tree			
6		[(ce = C_nottransparent) OR (ce = C_BothNT)) AND (rate = C_Full)]			
7		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
8		[(ce = C_nottransparent) OR (ce = C_BothNT)) AND (rate = C_Half)]			
9		[ur <> C_9600bs]			
10		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			not applicabl e
11		[ur = C_9600bs]			
12		[(ce = C_transparent) OR ( ce = C_BothT) ]			
13		[ (ur = C_9600bs) AND (rate = C_Full)]			
14		(TCV_ChMod.mode := C_ChMod_12k, TCV_ChModb.mode := C_ChMod_12k)			
15		[ ur = C_4800bs]			
16		(TCV_ChMod.mode := C_ChMod_6k, TCV_ChModb.mode := C_ChMod_6k)			
17		[ (ur <> C_4800bs) AND (ur <> C_9600bs)]			
18		(TCV_ChMod.mode := C_ChMod_3k, TCV_ChModb.mode := C_ChMod_3k)			
18	L_099 6	[(ur = C_9600bs) AND (rate = C_Half)]		I	not applicabl e

**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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, sdcch, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInCmsRq	CMSerReq( CMSerReq_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					
<b>Test Step Name</b> : Est_MO_Call_init( par1: OCTETSTRING; mag, mad : MA; ta : TA; tsc1 : B_3; nfrqg, nfrqd : INTEGER) <b>Group</b> : Preambles/ <b>Objective</b> : To initiate a mobile originating call for the supported bearer capability. The channel in use is frequency hopping channel. <b>Default</b> : OtherEvents <b>Comments</b> : 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			
9		ltree_continue (TCV_Null := OM_NoL2Ack(2,TCV_ch))			Don't acknowl edge setup message
10		+Cipherng_on( TCV_ch)			
11		L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)	SetupRcv( SetupInd_01)		
12		localtree_ia( par_chn: OCTETSTRING)			
13		[par_chn = C_CHTCHF_NonFH]			
14		(TCV_Tchtype := '00001'B)			
15		+ltree_immass_nfh( TCV_tch_arfcn, tsc1)			
16		[par_chn = C_CHSDCCH4_NonFH]			
17		(TCV_Tchtype := INT_TO_BIT(( 4 + BIT_TO_INT( TSPX_SDCCH4SubDef)), 5))			
18		+ltree_immass_nfh( TCV_chdescr_arfcn, tsc1)			
19		[par_chn = C_CHSDCCH8_NonFH]			
20		(TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubDef)), 5))			
21		+ltree_immass_nfh( TCV_tch_arfcn, tsc1)			
22		[par_chn = C_CHTCHF_FH]			
23		(TCV_Tchtype := '00001'B)			
24		+ltree_immass_fh(nfrqg, nfrqd)			
25		[par_chn = C_CHTCHH_FH]			
26		(TCV_Tchtype := INT_TO_BIT(( 2 + BIT_TO_INT( TSPX_TCHHSubDef)), 5))			
27		+ltree_immass_fh(nfrqg, nfrqd)			
28		[par_chn = C_CHTCHH_NonFH]			

Continued on next page

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		LIDL_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		LIDL_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))		
39		ltree_immass_nfh( arfcn : INTEGER; tsc : B_3) LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_nfh( TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_ia_ts, tsc, ta, arfcn, C_normal_paging))		
<b>Detailed Comments</b> : 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 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( CMSerReq_01)		
7		ACTIVATE( OtherEvents)			Restore Normal default
8		+ltree_continue			
9		ltree_continue (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)		
12		localtree_ia( par_chn: OCTETSTRING)			
13		[par_chn = C_CHTCHF_NonFH]			
14		(TCV_Tchtype := '00001'B)			
15		+ltree_immass_nfh( TCV_tch_arfcn, tsc1)			
16		[par_chn = C_CHSDCCH4_NonFH]			
17		(TCV_Tchtype := INT_TO_BIT(( 4 + BIT_TO_INT( TSPX_SDCCH4SubDef)), 5))			
18		+ltree_immass_nfh( TCV_chdescr_arfcn, tsc1)			
19		[par_chn = C_CHSDCCH8_NonFH]			
20		(TCV_Tchtype := INT_TO_BIT(( 8 + BIT_TO_INT( TSPX_SDCCH8SubDef)), 5))			
21		+ltree_immass_nfh( TCV_tch_arfcn, tsc1)			
22		[par_chn = C_CHTCHF_FH]			
23		(TCV_Tchtype := '00001'B)			
24		+ltree_immass_fh(nfrqg, nfrqd)			
25		[par_chn = C_CHTCHH_FH]			
26		(TCV_Tchtype := INT_TO_BIT(( 2 + BIT_TO_INT( TSPX_TCHHSubDef)), 5))			
27		+ltree_immass_fh(nfrqg, nfrqd)			
		[par_chn = C_CHTCHH_NonFH]			

Continued on next page

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		LIDL_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		LIDL_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		LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_nfh( TCV_Rr, TCV_Fn, TCV_Tchtype, TCV_ia_ts, tsc, ta, arfcn, C_normal_paging))		
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : Est_MT_CallNonFH( ta : TA; rate : IA5String; sub : B_1; rand : RAND)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To establish a mobile station terminating call with non hopping channel (speech or data call).					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

## 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, mtmcdds : INTEGER; bcchflgsm, 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; sysinfo : 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			
6		localtree1			
7		+ltree_sysinfo( 1, C_cch_1Comb)			ATT= '1'B
8		+MM_PwrOrSimOn ( C_SIMneedRmv)			
9		+localtree_Lup_Auth			
10		localtree_Lup_Auth			
11		START T_dly( C_T_Wait1stChReq)			
12		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
13		ACTIVATE(OtherEvents_02)			To match ChReq retrans.
14		LIDL_UdatRqImmass	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta))		
15		L?DL_EstInLupRq	LocUp( TCV_ch, LocUpdtReq_01( C_norm_period_attach))		Any location update type
16		ACTIVATE(OtherEvents)			Restore Normal default
17		[StartType = C_Start_Rej]			
18		LIDL_DatRqLupRej	LocRej( TCV_ch, LocUpdtReq_01( C_rc_LAnotallowed))		Delete LAI, tmsi, cksn
19		+PostMainLinkRel(TCV_ch)			Release Ch

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
18	L_099 7	+MM_PwrOrSimOff (C_SIMneedRmv)	LocAcp( TCV_ch, LocUpdtAcp_01( Milmsi_01iei, mcc, mnc, TCV_lac))	I	Location Accept with IMSI Release Ch
19		+localtree2			
20		[StartType = C_Start_Imsi]			
21		+Authentication( TCV_ch, cksn, rand)			
22		LIDL_DatRqLupAcp			
23		+PostMainLinkRel(TCV_ch)			
24		+localtree2			
25		[(StartType = C_Start_Tmsi) OR (StartType = C_Start_TmsiOff)]			
26		+Authentication( TCV_ch, cksn, rand)			
27		LIDL_DatRqLupAcp			Location Accept with TMSI Release Ch
28		L?DL_DatInTmsireCom			
29		+PostMainLinkRel(TCV_ch)			
30		+localtree2			
31		[StartType = C_Start_PLMNnot]			
32		LIDL_DatRqLupRej			
33		+PostMainLinkRel(TCV_ch)			
34		+localtree2			
35		[(StartType <> C_Start_Rej) AND (StartType <> C_Start_Tmsi) AND (StartType <> C_Start_TmsiOff) AND (StartType <> C_Start_Imsi) AND (StartType <> C_Start_PLMNnot)]			
36		?TIMEOUT T_dly			
37		+ltree_rmvPLMNfbdnlist			
38		localtree2			
39		[(att = 1) AND (StartType <> C_Start_TmsiOff)]			
40		[cch_con <> C_cch_1Comb]			
41		+localtree3			
42		+ltree_PgReorg			
43		[cch_con = C_cch_1Comb]			
43		[(att = 1) AND (StartType = C_Start_TmsiOff)]			

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			
55		localtree3 (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)			
59		ltree_PgReorg (TCV_Null:=OM_PgFill( activ_cell, PgReqTp1Reorg))			
60		START T_dly(5000)			
61		?TIMEOUT T_dly			
62		(TCV_Null:=OM_PgFill( activ_cell, PgReqTp1Norm))			
63		ltree_sysinfo( attach : INTEGER; con_ch : B_3)			
64		[activ_cell = C_CellA] +SysInfoSending( attach, con_ch)			SI1-4, cellA
65		(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
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]			

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

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, cchdgs, crh, mtmcgs, bcchflgs, bcchfldcs, Re, bcc, ncc, nccp)			CBMS
88		[sysinfonb = C_Test_cbms]			
89		+SysInfoSending_cbms( sch, bcch, t, retr, neci, attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co, crh, mtmcgs, mtmcdcs, bcchflgs, bcchfldcs, Re, bcc, ncc, nccp, subch)			
		ltree_chconf( conf : B_3)			
90		[activ_cell = C_CellA]			Config LT
91		+ltree_chconf_A( conf)			
92		[activ_cell = C_CellB]			Config LT
93		+ltree_chconf_B( conf)			
94		[activ_cell = C_CellC]			Config LT
95		+ltree_chconf_C( conf)			
		ltree_chconf_A( conf_a : B_3)			
96		[conf_a = C_cch_1nonComb]			1 non combine d CCCH, cell A
97		+NonCombinedBCCH_A( par_bspwr, mtmcgs, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			
		(TCV_Upd := C_NotCombined)			
98					
99		[conf_a = C_cch_1Comb]			
100		[sysinfonb <> C_Test_cbms]			
101		+CombinedBCCH_A( par_bspwr, mtmcgs, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH, cell A
102		(TCV_Upd := C_Combined)			
103		[sysinfonb = C_Test_cbms]			
104		+CombinedBCCH_A_CBMS( par_bspwr, mtmcgs, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1 combine d CCCH + CBMS, cell A
105		(TCV_Upd := C_Combined)			
106		[conf_a = C_cch_2nonComb]			2 CCCHs
107		+NonCombinedBCCH_A( par_bspwr, mtmcgs, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)			1st non combine d CCCH, cell A

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 combine d 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 combine d CCCH, cell A
112		+NonCombinedBCCH_A_2( acttype, slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
113		+NonCombinedBCCH_A_3( acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d 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 combine d CCCH, cell A
117		+NonCombinedBCCH_A_2( acttype ,slot2, tsc, ta, babr, conf_a, bpm)			2nd non combine d CCCH, cell A
118		+NonCombinedBCCH_A_3( acttype, slot3, tsc, ta, babr, conf_a, bpm)			3rd non combine d CCCH, cell A
119		+NonCombinedBCCH_A_4( acttype, slot4, tsc, ta, babr, conf_a, bpm)			4th non combine d CCCH, cell A
120		(TCV_Upd := C_NotCombined)			
121	L_099 8	[(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 combine d CCCH, cell B

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
124	L_099 9	(TCV_Upd := C_NotCombined)		I	1 combine d CCCH, cell B
125		[conf_b = C_cch_1Comb]			
126		+CombinedBCCH_B( par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)			
127		(TCV_Upd := C_Combined)			
128	L_100 0	[(conf_b <> C_cch_1nonComb) AND (conf_b <> C_cch_1Comb) ]		I	A wrong CCCH– CONF value, cell B
129		ltree_chconf_C( conf_c : B_3)			
130		[conf_c = C_cch_1Comb]			
131		+CombinedBCCH_C( par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_c, bpm)			
132	L_100 0	(TCV_Upd := C_Combined)		I	1 combine d CCCH, cell C
133		[conf_c <> C_cch_1Comb]			
134		ltree_sysinfo_other( attach : INTEGER)			
135		[(cch_con = C_cch_1nonComb) OR (cch_con = C_cch_1Comb)]			
136	L_100 0	[cch_con = C_cch_2nonComb]		I	SIs on 2nd CCCH
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)			
138		[cch_con = C_cch_3nonComb]			
139		+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)			
140	L_100 0	+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)		I	SIs on 3rd CCCH
141		[cch_con = C_cch_4nonComb]			
142		+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)			
143		[cch_con = C_cch_4nonComb]			



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_UdatRqImm	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]			

Detailed Comments	Formal Parameter Type	Comments & Explanations	Possible values
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01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 10

sch LOGICCH Sync. channel identity  
If formal para activ. cell = C: CellA C: SCH A

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\_CellC, C\_BCCH\_C\_1

slot2	SN	Slot number for the 2nd slot
		In case of 2 or 3 or 4 non combined CCCH C-S2

slot3	SN	Slot number for the 3rd slot	
		In case of 3 or 4 non combined CCCH	C-S4

slot4	SN	Slot number for the 4th slot	
		In case of 4 non combined CCCH channels	C-S6

t INTEGER   Rach Control Parameter field, Tx-Integer  
for SysInfo1 SysInfo2 SysInfo3 SysInfo4 C TxInt 5

```
retr    INTEGER    Rach Control Parameter field, Max-Retrans
                for SysInfo1 SysInfo2 SysInfo3 SysInfo4 C Max 1
```

neci	INTEGER	Requested value f. NECl bit in test case	C_NECI_0, C_NECI_1
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att	INTEGER	Requested value f. ATTACH bit in test case C_ATT_0,
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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 combined CCCH channel	C_cch_1Comb
		1 non combined CCCH channel	C_cch_1nonComb
		2 non combined CCCH channels	C_cch_2nonComb
		3 non combined CCCH channels	C_cch_3nonComb
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 Location Update Value)	(Periodic
		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_MaxPwrLvIG
mtmdcs	INTEGER	Requested maximum power level for DCS MS	C_MaxPwrLvID
bcchflgsm	NCD	Neighbour Cells Description for GSM	BcchFreqLst_xx
bcfaltgsm	NCD	Alternative Neighbour Cells Description for GSM.	

## Test Step Dynamic Behaviour

### Detailed Comments : ...

If sysinfofb = 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 sysinfofb = 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\_CKSNDf, TSPX\_CKSNA, B, C

rand BITSTRING Random Number for authentication TSPX\_RANDDef,  
 TSPX\_RANDA, B, C

arfcngsm INTEGER BCCH channel ARFCN (GSM)  
 If sysinfofb = 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 sysinfofb = 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

sysinfofb 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)			

Continued on next page

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_100 2	[(cch_con = C_cch_2Comb) OR (cch_con = C_cch_3Comb) OR (cch_con = C_cch_4Comb)]  localtree		I	Reserved

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_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
Detailed Comments :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU01_21( sub : B_2; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U0.1 by procedure in table 26.8.1.2/1. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> :					
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	CMSSerReq(CMServiceReq_04)		
4		ACTIVATE(OtherEvents)			Restore Normal default tree
Detailed Comments : 1. To assign SDCCH4 channel.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU1_21( sub : B_2; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U1 by procedure in table 26.8.1.2/1. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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 cipherring key.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PreEnterCCstateU01_21( sub, ta)			
2		+Cipherring_on( TCV_ch)			
3		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
4		+CCstatuschk_02( TCV_ch, C_U1, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour						
<b>Test Step Name</b> : PreEnterCCstateU1_22(slot : SN; tsc : TSC; ta : TA)						
<b>Group</b> : Preambles/						
<b>Objective</b> : To bring the MS into CC state U1 by procedure in table 26.8.1.2/2. This is used in CC testing.						
<b>Default</b> : OtherEvents						
<b>Comments</b> : 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.  To match ChReq retrans.	
2		ACTIVATE(OtherEvents_02)				
3		L?DL_EstInCmsRq (TCV_Fn :=DL_EstInCmsRq.fn)	CMSerReq( CMServiceReq_04)			
4		ACTIVATE(OtherEvents)				Restore Normal default
5		+CCModifyTCH(slot, tsc)				
6		+Cipherring_on(TCV_chTch)				
7		+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)				
8		+CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)			2.	
<b>Detailed Comments</b> : 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 transaction 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( CMSserviceReq_04)		
4		START T_dly(45000) 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 transaction identifier from the MS, and TCV\_TI0 contains the transaction 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 IMSI.
5		L!DL_DatRqIdRq	IDReq(TCV_chTch, IDRequest_01('0001'B))		
6		L?DL_DatInIdRes	IDRes(IDResponse_30(Milm si_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					
<b>Test Step Name</b> : PreEnterCCstateU1(ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To establish a mobile originating call and put the MS under test in the CC state U1. <b>Default</b> : OtherEvents <b>Comments</b> : test case variable TCV_TI0 holds the transaction ID used 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_RaInChRq (TCV_Rr := DL_RaInChRq. msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)	ChReq( ChRequest_04)		
3		ACTIVATE( OtherEvents_02)			To match ChReq retrans.
4		L!DL_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5		L?DL_EstInCmsRq	CMSerReq( CMSerReq_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)			
<b>Detailed Comments</b> : 1. To attempt a outgoing call at the MS. 2. In the state U1 now.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU3(ta : TA; cksn : B_3; rand : RAND)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To establish a mobile originating call and put the MS under test in the CC state U3.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	CallProc(TCV_ch, TCV_CallProc)		1.
2		L!DL_DatRqCallProc			2.
3		+CCstatuschk_02( TCV_ch, C_U3, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> : 1. To initiate a mobile originating call at the MS. 2. Now in the state U3.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU3_21( sub : B_2; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U3 by procedure in table 26.8.1.2/1. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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 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		+PreEnterCCstateU1_21( sub, ta)	CallProc(TCV_ch, TCV_CallProc)		
2		L!DL_DatRqCallProc			
3		+CCstatuschk_02(TCV_ch, C_U3, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> : 1. To assign SDCCH4 channel.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU3_22(slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U3 by procedure in table 26.8.1.2/2. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	CallProc(TCV_chTch, TCV_CallProc)		
2		L!DL_DatRqCallProc			
3		+CCstatuschk_02(TCV_chTch, C_U3, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU3_23( sub : B_2; ta : TA; cksn : B_3; rand : RAND)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U3 by procedure in table 26.8.1.2/3. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	CMSerReq( CMServiceReq_04)		To match ChReq retrans.
2		ACTIVATE( OtherEvents_02)			
3		L?DL_EstInCmsRq			
4		ACTIVATE( OtherEvents)			
5		+Ciphering_on( TCV_ch)	CallProc( TCV_ch, TCV_CallProc)		Restore Normal default tree
6		+RcvSetupOrEsetup( TCV_Setup_mo, TCV_Esetup, TCV_Ecall)			
7		+Authentication( TCV_ch, cksn, rand)			
8		L!DL_DatRqCallProc			
9		+CCstatuschk_02( TCV_ch, C_U3, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU3_24( slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U3 by procedure in table 26.8.1.2/4. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	CallProc(TCV_chTch, TCV_CallProc)		
2		+CCModifyTCH(slot, tsc)			
3		L!DL_DatRqCallProc			
4		+CCstatuschk_02(TCV_chTch, C_U3, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU4_21( sub : B_2; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U4 by procedure in table 26.8.1.2/1. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertSnd(TCV_ch, Alerting_01(TCV_TI))		
2		L!DL_DatRqAlert			
3		+CCstatuschk_02(TCV_ch, C_U4, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU4_22( slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U4 by procedure in table 26.8.1.2/2. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
2		L!DL_DatRqAlert			
3		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU4_23( sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U4 by procedure in table 26.8.1.2/3. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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)	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
2		+CCAssignTCH(slot, tsc)			
3		LIDL_DatRqAlert			
4		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU4_24( slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U4 by procedure in table 26.8.1.2/4. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertSnd(TCV_chTch, Alerting_01(TCV_TI))		
2		L!DL_DatRqAlert			
3		+CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU6_32(ta : TA; sub : B_2; cksn : B_3)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U6 by procedure in table 26.8.1.3/2. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : State U6 is a transient state.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		(TCV_Setup_mt.sig :=Signal_01)	SetupSnd(TCV_ch, TCV_Setup_mt)		1.
2		+CCEstablishMT_SDCCH4( ta, sub, cksn)			
3		+Ciphering_on(TCV_ch)			
4		L!DL_DatRqSetup			
<b>Detailed Comments</b> : 1. To assign SDCCH4 channel.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU7_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U7 by procedure in table 26.8.1.3/1. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertRcv(AlertingInd_02(TI_01))		
2		L?DL_DatInAlert			
3		+CCstatuschk_02(TCV_ch, C_U7, TI_02, TI_01)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU7_32(ta : TA; sub : B_2; cksn : B_3)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U7 by procedure in table 26.8.1.3/2. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertRcv(AlertingInd_02(TI_01))		
2		L?DL_DatInAlert			
3		+CCstatuschk_02(TCV_ch, C_U7, TI_02, TI_01)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU7_33( slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U7 by procedure in table 26.8.1.3/3. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	AlertRcv(AlertingInd_02(TI_01))		
2		L?DL_DatInAlert			
3		+CCstatuschk_02(TCV_chTch, C_U7, TI_02, TI_01)			
<b>Detailed Comments</b> :					



Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU8_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U8 by procedure in table 26.8.1.3/1. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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.
<b>Detailed Comments</b> : 1. To accept the call by operator. 2. To check whether the MS is in the expected initial state U8.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU8_32(slot : SN; tsc : TSC; ta : TA; sub : B_2; cksn : B_3) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U8 by procedure in table 26.8.1.3/2. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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.
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : PreEnterCCstateU8_34_SS <b>Group</b> : Preambles/ <b>Objective</b> : To establish an MT call entering U8 with early assignment for SS test subgroup. <b>Default</b> : OtherEventsFail <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU9_31(ta : TA; sub : B_2; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U9 by procedure in table 26.8.1.3/1. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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))		
<b>Detailed Comments</b> : 1. To establish a MT SDCCH/4. 2. To initiate authentication procedure. 3. To start ciphering on the traffic channel.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU9_32(ta : TA; sub : B_2; cksn : B_3) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U9 by procedure in table 26.8.1.3/2. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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))		
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU9_33(slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U9 by procedure in table 26.8.1.3/3. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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))		
<b>Detailed Comments</b> : 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 parameter 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	L_100 3	+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		[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 parameter 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	L_100 4	+CCEstablishMT_SDCCH4(ta, sub, cksn)	AuthReq( TCV_ch, AuthRequest( cksn, rand))  AuthRes( AuthResponse)	(I)	1.
2		L!DL_DatRqAuthRq			
3		L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)			
4		(TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, rand))			
5		[NOT TCV_Res ]			
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			
18		localtree			
19		+CCAssignTCH(slot, tsc)  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_UdatRqImmss	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_100 5	[NOT TCV_Res ]		I	1.
11		[TCV_Res ]			
12		+Ciphering_on(TCV_ch)			
13		+localtree			
14		localtree (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))		

Continued on next page



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)			
<b>Detailed Comments</b> : 1. Authentication fails, inconclusive.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU10_21( sub : B_2; slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U10 by procedure in table 26.8.1.2/1. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction identifier for test system to send CC message. The values of them are used in test body. 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		+PreEnterCCstateU4_21( sub, ta)			
2		+CCAssignTCH(slot, tsc)			
3		L!DL_DatRqConn	ConnSnd(TCV_chTch, Connect_02(TCV_TI))		1.
4		L?DL_DatInConnAck	ConnAckRcv(ConnectAck_02(TCV_TI0))		
5		+CCstatuschk_02(TCV_chTch, C_U10, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> : 1. To assign the suitable traffic channel to the MS.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU10_22( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U10 by procedure in table 26.8.1.2/2. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU11_23( sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : 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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : PreEnterCCstateU11_23Timer( sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U11 by procedure in table 26.8.1.2/3. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction identifier for test system to send CC message. The values of them are used in test body. 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		+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)			
<b>Detailed Comments</b> : 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					
<b>Test Step Name</b> : PreEnterCCstateU11_24( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U11 by procedure in table 26.8.1.2/4. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction 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.
<b>Detailed Comments</b> : 1. Now in CC state U11 and cause = #30.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU12_21( sub : B_2; slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U12 by procedure in table 26.8.1.2/1. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : 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)	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		1.
2		L!DL_DatRqDisc			
3		+CCstatuschk_02(TCV_chTch, C_U12, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> : 1. Progress indicator = #8.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU12_22( slot : SN; tsc : TSC; ta : TA)					
<b>Group</b> : Preambles/					
<b>Objective</b> : To bring the MS into CC state U12 by procedure in table 26.8.1.2/2. This is used in CC testing.					
<b>Default</b> : OtherEvents					
<b>Comments</b> : The DISCONNECT message containing progress indicator #8. TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction 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)	DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit))		1.
2		L!DL_DatRqDisc			
3		+CCstatuschk_02(TCV_chTch, C_U12, TCV_TI, TCV_TI0)			
<b>Detailed Comments</b> : 1. Now in CC state U12					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU12_23( sub : B_2; slot : SN; tsc : TSC; ta : TA; cksn : B_3; rand : RAND) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U12 by procedure in table 26.8.1.2/3. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : The DISCONNECT message containing progress indicator #8. TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction identifier for test system to send CC message. The values of them are used in test body. 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		+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)			
<b>Detailed Comments</b> : 1. Progress indicator = #8.					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU19_21( sub : B_2; slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U19 by procedure in table 26.8.1.2/1. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transaction identifier from the MS, and TCV_TI contains the transaction identifier for test system to send CC message. The values of them are used in test body. 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		+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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU19_24( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transction identifier from the MS, and TCV_TI contains the transction 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, Proglnd_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)			
<b>Detailed Comments</b> :					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : PreEnterCCstateU19_24Timer( slot : SN; tsc : TSC; ta : TA) <b>Group</b> : Preambles/ <b>Objective</b> : To bring the MS into CC state U19 by procedure in table 26.8.1.2/4. This is used in CC testing. <b>Default</b> : OtherEvents <b>Comments</b> : TCV_TI0 contains the transction identifier from the MS, and TCV_TI contains the transction 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, Proglnd_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)			
<b>Detailed Comments</b> :					

## 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_UdatRqImmss	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_UdatRqImmss	ImmAss( TCV_agch, ImmAsgn_01Def( TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta))		
5	L_100 6	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( CMSerReq_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					
<b>Test Step Name</b> : SpeechService					
<b>Group</b> : Preambles/					
<b>Objective</b> : To selecte a speech service, if the MS supports Telephony the selected speech service is telephony.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_100 7	[TSPC_Serv_TS11]			1.
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		[C_Yes]			
<b>Detailed Comments</b> : 1. No speech service available					

Test Step Dynamic Behaviour					
<b>Test Step Name</b> : 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; cchdgs, cchddcs : CCHD; bcchflgsm, bcchfldcs : NCD; Re : B_1)					
<b>Group</b> : Preambles/					
<b>Objective</b> : 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.					
<b>Default</b> : OtherEvents					
<b>Comments</b> :					
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, cchdgs, 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_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)			
5		+SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)			
<b>Detailed Comments</b> :					

## 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; cchdgs, 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, cchdgs, cchddcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)			
4		(TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			
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_100	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb) ]		I	
	8	ltree_chconf			
9		[ cch_con = C_cch_1Comb]			
10		+CombinedBCCH_B( par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
11		[ cch_con = C_cch_1nonComb]			
12		+NonCombinedBCCH_B( par_bspwr, C_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm)			
13	L_100	[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb) ]		I	
	9				

**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; cchdgs : CCHD; bcchf1, bcchf2 : 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	L_101 0	(TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))		I	
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, cchdgs, C_CellReselectHys12, C_MaxPwrLvlG, bcchf1, bcchf2, 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		[(cch_con <> C_cch_1nonComb) AND (cch_con <> C_cch_1Comb) ]			
		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_101 1	[(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; cchdgs, 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, cchdgs, cchddcs, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, 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_101 2	[(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_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)			
13	L_101 3	[(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_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)			
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)			

Continued on next page

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)			

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)			

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		+cellIN1			
2		+cellIN2			
3		+cellIN3			
4		+cellIN4			
5		+cellIN5			
6		+cellIN6			
7		+cellIN7			
		cellIN1			
8		+CombinedBCCH_B(28, C_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
10		(TCV_Ccd0B := TCV_Ccd0H)			
		cellIN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC_7, C_NCC, C_NCCP_2)			
13		(TCV_Ccd0C := TCV_Ccd0H)			
		cellIN3			
14		+CombinedBCCH_D(38, C_MaxPwrLvIG, C_MaxPwrLvID, 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_cellID, 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_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noRestablishment, C_BCC, C_NCC, C_NCCP_2)			
10		(TCV_Ccd0B := TCV_Ccd0H)			
		cellN2			
11		+CombinedBCCH_C(33, C_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, 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_MaxPwrLvIG, C_MaxPwrLvID, 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_cellID, 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			
8		cellS +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)			
11		cellN2 +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)			
14		cellN3 +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_cellID, 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					
<b>Test Step Name</b> : TS61MO( srv : SERVICES) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MO SETUP message with appropriate Bcap for TS61 service. <b>Default</b> : OtherEvents <b>Comments</b> :					
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
12		local_bcap			
13		[TCV_ce = C_transparent]			
14		[TCV_ur = C_9600bs]			
15		+local_TS61_FAX3_T(C_9600bs, C_ir_16kbs)			
16		[(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_101 4	[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]		I	IXIT paramet er error
18		[TCV_ce = C_nottransparent]			
19		+local_TS61_FAX3_NT(TCV_ur)			
20		local_TS61_FAX3_T(ur : B_4; ir : B_2)			
21		(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))			
22		local_TS61_FAX3_NT(ur : B_4)			
23		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
24		[ur=C_9600bs]			
25		(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))			
26		[(ur=C_2400bs) OR (ur = C_4800bs)]			
27		(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))			
28		[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]			
29		local_selectCe			
30		[TSPX_TS_61_T_NT]			
31		(TCV_ce := C_nottransparent)			
32		[NOT TSPX_TS_61_T_NT]			
33		(TCV_ce := TSPX_TS_61_ce)			
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Test Step Dynamic Behaviour					
<b>Test Step Name</b> : TS62MO( srv : SERVICES) <b>Group</b> : Preambles/ <b>Objective</b> : To generate an MO SETUP message with appropriate Bcap for TS62 service. <b>Default</b> : OtherEvents <b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_101 6	(TCV_srv := srv, TCV_ur := TSPX_TS_62_ur1, TCV_CE := C_BothT)		I	variables used in InitCall
2		+local_selectCe			get the right BC
3		+local_bcap			
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))			
7		local_bcap			IXIT parameter error
8		[TCV_ce = C_transparent]			
9		[TCV_ur = C_9600bs]			
10		+local_TS62_FAX3_T(C_9600bs, C_ir_16kbs)			
11		[(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]			
12		+local_TS62_FAX3_T(TCV_ur, C_ir_8kbs)			
13		[(TCV_ur <> C_4800bs) AND (TCV_ur <> C_2400bs) AND (TCV_ur <> C_9600bs)]			
14		[TCV_ce = C_nottransparent]			
15		+local_TS62_FAX3_NT(TCV_ur)			
16		local_TS62_FAX3_T(ur : B_4; ir : B_2)			
17		(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
18		local_TS62_FAX3_NT(ur : B_4)			11.8.2.7 .2
19		(TCV_bcapListIndicator := TCV_bcapListIndicator + 2)			
20		[ur = C_9600bs]			
21		(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))			
22		[(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_SDUIegrity, 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_101 7	[(ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]		I	IXIT paramet er error
22		local_selectCe			
23		[TSPX_TS_62_T_NT]			
24		(TCV_ce := C_nottransparent)			
25		[NOT TSPX_TS_62_T_NT]			
		(TCV_ce := TSPX_TS_62_ce)			
<p><b>Detailed Comments</b> : 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.</p> <p>The algorithm for selecting parameters:</p> <p>IF (TSPX_BS_62_T_NT)     TCV_ce := C_nottransparent ELSE     TCV_ce := TSPX_BS_62_ce</p> <p>use (TCV_ce, TSPX_BS_62_ur1, svc) for OO_IFsetup_TS6x_MO</p>					

## 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			
3		local_maintree			
4		(TCV_srv := srv, TCV_2ndtest := C_Yes)			1st Bcap
5		(TCV_BcapMT1 := Bcap_Speech_MT)			
6		+local_first_SETUP_msg			
7		+local_second_SETUP_msg			
8		local_first_SETUP_msg			
9		(TCV_ur := TSPX_TS_61_ur1)			
10		[TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = C_nottransparent)]			
11		+local_bcap2(TCV_ur, C_nottransparent)			2nd channel mode
12		(TCV_Setup_mt := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			Speech mode
13		+Chmod(TCV_ChRate, C_nottransparent, TCV_ur, srv)			
14		(TCV_ChMod.mode := C_ChMod_r)			
15		[NOT TSPX_TS_61_T_NT AND (TSPX_TS_61_ce = C_transparent)]			
16		+local_bcap2(TCV_ur, C_transparent)			2nd channel mode
17		(TCV_Setup_mt := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			Speech mode
18		+Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)			
19		(TCV_ChMod.mode := C_ChMod_r)			
20		local_second_SETUP_msg			
21		+local_userrate			
22		[TSPX_TS_61_T_NT]			
23		+local_bcap2(TCV_ur2, C_transparent)			2nd Bcap
24		(TCV_Setup_mt1 := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
25		[NOT TSPX_TS_61_T_NT]			
26		+local_bcap2(TCV_ur2, C_BothT)			
27		(TCV_Setup_mt1 := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))			
28		local_bcap2(ur : B_4; ce : B_2)			
29		[ ce = C_transparent]			

Continued on next page

Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
26	L_101 8	[ (ur = C_2400bs) OR (ur = C_4800bs)]		I	
27		+local_TS61_FAX3_T(ur, C_ir_8kbs)			
28		[ ur = C_9600bs]			
29		+local_TS61_FAX3_T( ur, C_ir_16kbs)			
30		[ (ur <> C_2400bs) AND (ur <> C_4800bs) AND (ur <> C_9600bs)]			
31		[ ce = C_BothT]			
32		+local_TS61_FAX3_NT( ur, C_BothT)			
33		[ ce = C_nottransparent]			
34	+local_TS61_FAX3_NT( ur, C_nottransparent)		I		
35	L_101 9				[ (ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_nottransparent)]
36	local_TS61_FAX3_T(ur : B_4; ir : B_2) (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)) local_TS61_FAX3_NT(ur : B_4; ce1 : B_2)				11.8.1.5 .1
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)) local_userrate				11.8.1.5 .2
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)				
42	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_102 0				[NOT TCV_SpecialCase]

**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 Capability ( used for TC\_11\_1\_1):

IF TSPX\_TS\_61\_more\_ur

### 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_nottransparent)]			
8		+local_bcap2(TCV_ur, C_nottransparent)			
9		(TCV_Setup_mt := Setup_20( TCV_BcapMT2, TI_02))			
10		+Chmod(TCV_ChRate, C_nottransparent, 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_102 1	[ (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_nottransparent]			

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Test Step Dynamic Behaviour					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
31	L_102 2	+local_TS62_FAX3_NT( ur, C_nottransparent)		I	
32		[ (ce <> C_transparent) AND (ce <> C_BothT) AND (ce<> C_nottransparent)]			
33		local_TS62_FAX3_T(ur : B_4; ir : B_2) (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
34		local_TS62_FAX3_NT(ur : B_4; ce1 : B_2) (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
35		local_userrate			
36		[TSPX_TS_62_more_ur]			
37		(TCV_ur2 := TSPX_TS_62_ur2)			
38		[NOT TSPX_TS_62_more_ur]			
39		(TCV_ur2 := TSPX_TS_62_ur1)			
40		local_IFsetup			
41		[TCV_supported]			
42		(TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))			
43		[NOT TCV_supported]			
44		[TCV_SpecialCase]			
45	L_102 3	START T_dly(C_T_Wait) ?TIMEOUT T_dly [NOT TCV_SpecialCase]		I	Paramet er error
<b>Detailed Comments</b> : The algorithm for derivation of TS62 Bearer Capabilities: <p> 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 &amp; ce=NT)  ELSE  use coding 11.8.1.5.1 with (ur &amp; ce=T) </p> <p> The 2nd Bearer Capability ( 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 &amp; ce=T)  ELSE  use coding 11.8.1.5.2 with(ur &amp; ce=both/T) </p>					

## 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_DatInStopD tmf.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					
<b>Default Name</b> : OtherEvents					
<b>Group</b> :					
<b>Objective</b> : To match unexpected events and sign final verdict for preambles.					
<b>Comments</b> : used in preambles.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		4.
2		RETURN	DLUdatInd_01		
3		L?DL_UdatIn			
4		RETURN			
5	L_102 4	?TIMEOUT T_guard		I	1.
6		(TCV_Null := OO_TguardTimeOut())			3.
7		CANCEL			
8	L_102 6	L?OTHERWISE		I	2.
9		CANCEL			3.
<b>Detailed Comments</b> : 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					
<b>Default Name</b> : OtherEventsFail					
<b>Group</b> :					
<b>Objective</b> : To match unexpected events and fail the test case.					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RelIn	DLRelInd_02		
2		RETURN	DLUdatInd_01		
3		L?DL_UdatIn			
4		RETURN			
5	L_102 7	?TIMEOUT T_guard		I	1.
6		(TCV_Null := OO_TguardTimeOut())			3.
7		CANCEL			
8	L_102 9	L?OTHERWISE		F	2.
9		CANCEL			3.
<b>Detailed Comments</b> : 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_103 0	L?DL_RelIn	DLRelInd_01	I	6.
2		RETURN			
3		L?DL_UdatIn	DLUdatInd_01		
4		RETURN			
5		?TIMEOUT T_guard			1.
6		(TCV_Null := OO_TguardTimeOut())			
7		CANCEL			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		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					
<b>Default Name</b> : OtherEventsFail_02					
<b>Group</b> :					
<b>Objective</b> : 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 Assignment message.					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_103 3	L?DL_Relln	DLRelInd_02	I	1.
2		RETURN	DLUdatInd_01		
3		L?DL_Udatln			
4		RETURN			
5		L?DL_RacInChRq			
6		RETURN			
7		?TIMEOUT T_guard			
8		(TCV_Null := OO_TguardTimeOut())			
9		CANCEL			
10		L?OTHERWISE			
11	L_103 5	CANCEL	F	4.	
<b>Detailed Comments</b> : 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					
<b>Default Name</b> : OtherEvents_01					
<b>Group</b> :					
<b>Objective</b> : To match irrelevant messages and return					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?OTHERWISE			1.
2		RETURN			
<b>Detailed Comments</b> : 1. Cover also DLRelInd_02 for local end termination.					

Default Dynamic Behaviour					
<b>Default Name</b> : OtherEvents_02					
<b>Group</b> :					
<b>Objective</b> : 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 Assignment message.					
<b>Comments</b> : used in preambles.					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	L_103 6	L?DL_Relln	DLRelInd_02	I	1.
2		RETURN	DLUdatInd_01		
3		L?DL_Udatln			
4		RETURN			
5		L?DL_RacInChRq			
6		RETURN			
7		?TIMEOUT T_guard			
8		(TCV_Null := OO_TguardTimeOut())			
9		CANCEL			
10		L?OTHERWISE			
11	L_103 8	CANCEL	I	4.	
<b>Detailed Comments</b> : 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					
<b>Default Name</b> : RcvHdOvAcc					
<b>Group</b> :					
<b>Objective</b> : To match any HANDOVER ACCESS then return to calling tree.					
<b>Comments</b> :					
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L?DL_RacInHoacc	HndOvAcc_01		
2		RETURN			
<b>Detailed Comments</b> :					